



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 162378

TO: Ulrike Winkler  
Location: REM-3A39&3C18  
Art Unit: 1648  
Monday, August 22, 2005

Case Serial Number: 09/303510

From: Edward Hart  
Location: Biotech-Chem Library  
REM-1A55  
Phone: 571-272-2512

edward.hart@uspto.gov

### Search Notes

Examiner Winkler,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

*Please Note  
Seq ID No 5+6  
of US 09/303510  
is same as  
SEQ ID No 5+6  
of US 09/303040*



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162378

From: Winkler, Ulrike  
Sent: Friday, August 12, 2005 12:08 PM  
To: STIC-Biotech/ChemLib

STIC,

Please search the interference files for SEQ ID NO 5 and 6 of 09/303510.

Thanks, Ulrike

CRFE

Ulrike Winkler, Ph.D.  
Patent Examiner, Art Unit 1648  
Remsen 3A39 / Mail Box 3C18  
tel. 571-272-0912  
fax. 571-273-0912

\*\*\*\*\*  
STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: 8/17/05  
Date Completed: 8/22/05  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*  
Type of Search

NA#: 1 AA#: 1  
Interference: \_\_\_\_\_ SPDI: \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure#: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

\*\*\*\*\*  
Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: 01/02/05  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_



# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor  
Remsen Bldg. 01 D86  
571-272-2507

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library, Remsen Bldg.



**UB-09-303-510-6.rtf**

to Seg 106 of

This sequence is identical  
to Seq ID 6 at  
09/203 040 - plus instant  
claims do  
a sequence

RESULT 6  
US-08-456-104-2  
Sequence 2, Application US/08456104  
Patent No. 586114  
GENERAL INFORMATION:  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
APPLICANT: Gray, Gary S.  
TITLE OF INVENTION: TUMOR CELLS  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRES:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, Suit  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/456,104

FILING DATE: 424  
 PRIOR APPLICATION NUMBER: 08/101,624;  
 FILING DATE: 26-JUL-1993;  
 APPLICATION NUMBER: 08/109,393;  
 APPLICATION NUMBER: 19-AUG-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Mandragoras, Amy E.  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: RPI-008  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
8-456-104-2

S-08-456-104-2

Query Match	52.0%	Score 903, DB 2; Length 329
Best Local Similarity	58.5%	Pred. NO. 2.18-83;
Matches 190;	Conservative 44;	Mismatches 83; Indels

	Matches	190;	Conservative	46;	Mismatches	83;	Indels	8;	Gaps	
Qy	7	TWGLSHITLVNALLGSSVSKSQAYFNKTKGLPCPHTNTSONISLDELVVPPQDVKLVL	66							
Dd	6	TWGLSNIIFVWFPLLSQAAPKQLQAFNFAADLPCCQFANSQNCQLSELVYVFGQBNVLV	65							
Qy	67	YSIFGRKENPONVHLKYGRTSFDKNQWTLLRLRWQIKDKGTTHCPZHYNGPKCLVPMHQ	126							
Dd	66	NEVTLGSKPTDSVHSKTMGRTSEPSDSSTVLRLENLQIKDKGLYQCIIHHKCTGVIRIHQ	125							
Qy	127	MSGSISVLANGSPQPIVTVMNRNTSGOINMLTCSG <del>QGVPEKEMT</del> FQLTNSTT <del>KYDT</del>	186							
Dd	126	MAISELSVLANFSOEPIVPSI <del>NTEV</del> -YNLTCSSTHGVPKNSVLLRTNSTTIEYG	184							
Qy	187	VAKESQNVNTELINVVISLSLPPSVPE-AHNVSVPFCALKLETLEMLSLPNIDAQPKDOP	245							
Dd	185	INQSGDNVTELYDVVISLSLSPFPDVTNNMTIFCILETONTR-LLSGSPPSIBUE--DPQP	241							
Qy	246	EQQCHFLTAALVAALVMPVFCGVASPKTLRK-RKKQCPGPHSCBETIKRERKSGATNERVP	304							
Dd	242	PPDHIPMITAVLPT-VLICVWPVCLLWKWKKKRPNSYKCGTNMTMBEELSETQKRK	300							
Qy	305	YHVPERSDAEACV-NILKTASGDKN	328							



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 19, 2005, 23:16:32 ; Search time 219 Seconds  
(without alignment)  
8069.310 Million call updates/sec

Title: US-09-303-510-5

Perfect score: 1080

Sequence: 1 GTTCTGTGTTCTCTCGGAA.....TGGCTGCGTGCAGCAAT 1080

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Query Score	Match	Length	ID	Description
1	1080	100.0	1080	4	US-09-303-040-5
2	580.6	53.8	1424	3	US-09-326-186B-226
3	580.6	53.8	1424	4	US-09-441-411-21
4	580.6	53.8	1428	5	PCT-US94-08642-1
5	580.6	53.8	1600	4	US-09-949-016-5261
6	552.6	51.2	1161	3	US-08-205-697A-24
7	552.6	51.2	1161	3	US-08-702-525-24
8	552.6	51.2	1161	4	US-09-837-867A-24
9	552.6	51.2	1161	5	PCT-US95-02576-24
10	533.2	49.4	1002	3	US-09-039-982A-33
11	533.2	49.4	1002	3	US-09-039-641-33
12	533.2	49.4	1002	3	US-09-039-762A-33
13	533.2	49.4	1002	3	US-09-042-492D-33
14	533.2	49.4	1002	3	US-08-913-612A-33
15	533.2	49.4	1002	4	US-10-266-463A-33
16	533.2	49.4	1112	4	US-09-441-411-25
17	533.2	49.4	1120	2	US-08-456-104-1
18	533.2	49.4	1120	2	US-08-101-624-1
19	533.2	49.4	1120	3	US-08-479-744A-1
20	533.2	49.4	1120	3	US-08-280-757B-1
21	533.2	49.4	1120	3	US-08-205-697A-22
22	533.2	49.4	1120	3	US-08-702-525-22
23	533.2	49.4	1120	3	US-08-403-253A-3
24	533.2	49.4	1120	4	US-08-435-816A-3
25	533.2	49.4	1120	4	US-09-425-762-1
26	533.2	49.4	1120	4	US-09-837-867A-22
27	533.2	49.4	1120	4	US-09-206-132-1

28	533.2	49.4	1120	4	US-09-425-516-1	Sequence 1, Appl
29	533.2	49.4	1120	5	PCT-US95-02576-22	Sequence 22, Appl
30	528.2	48.9	972	3	US-08-848-760B-11	Sequence 11, Appl
31	528.2	48.9	972	4	US-09-836-025-11	Sequence 11, Appl
32	434.6	40.2	751	3	US-09-039-982A-34	Sequence 34, Appl
33	434.6	40.2	751	3	US-09-039-641-34	Sequence 34, Appl
34	434.6	40.2	751	3	US-09-039-762A-34	Sequence 34, Appl
35	434.6	40.2	751	3	US-08-042-492D-34	Sequence 34, Appl
36	434.6	40.2	751	3	US-08-913-612A-34	Sequence 34, Appl
37	434.6	40.2	751	4	US-10-266-463A-34	Sequence 34, Appl
38	439.6	39.8	1056	4	US-09-756-983-17	Sequence 17, Appl
39	335.4	31.1	1261	3	US-08-205-697A-12	Sequence 12, Appl
40	335.4	31.1	1261	3	US-08-702-525-12	Sequence 12, Appl
41	335.4	31.1	1261	4	US-09-837-867A-12	Sequence 12, Appl
42	335.4	31.1	1261	5	PCT-US95-02576-12	Sequence 12, Appl
43	329.6	30.5	1151	2	US-08-456-104-3	Sequence 3, Appl
44	329.6	30.5	1151	3	US-08-205-697A-20	Sequence 20, Appl
45	329.6	30.5	1151	3	US-08-702-525-20	Sequence 20, Appl

## ALIGNMENTS

### RESULT 1

US-09-303-040-5

Sequence 5, Application US/09303040

Patent No. 6555671

GENERAL INFORMATION:

APPLICANT: Winslow, Barbara J.

APPLICANT: Cochran, Mark D.

TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding

TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or

TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof

FILE REFERENCES: 54957-B

CURRENT APPLICATION NUMBER: US/09/303,040

CURRENT PILING DATE: 1999-04-30

EARLIER PILING DATE: 1998-05-01

NUMBER OF SEQ ID NOS: 82

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 5

LENGTH: 1080

TYPE: DNA

ORGANISM: feline CD86

FEATURE:

NAME/KEY: CDS

LOCATION: (63)..(1052)

US-09-303-040-5

Query Match 100.0%; Score 1080; DB 4; Length 1080;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy	1	GTTCCTGTGTTCTCTCGGAAATGTCACATGAGCTTATACATCTGTCTCTGGAGCTGCAGT	60
Db	1	GTTCCTGTGTTCTCTCGGAAATGTCACATGAGCTTATACATCTGTCTCTGGAGCTGCAGT	60
Oy	61	GGATGGCAATTTGTGACAGCACTATGGAGCTGAGTCACACTCTCTGTGTATGGCCCTCC	120
Db	61	GGATGGCAATTTGTGACAGCACTATGGAGCTGAGTCACACTCTCTGTGTATGGCCCTCC	120
Oy	121	TGCTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTCGAGAACTGC	180
Db	121	TGCTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTCGAGAACTGC	180
Oy	181	CATGCATTTTCAAACTCTCAAAACATAGCTGAGCTGGTAGTATTTTGGGAGG	240
Db	181	CATGCATTTTCAAACTCTCAAAACATAGCTGAGCTGGTAGTATTTTGGGAGG	240
Oy	241	ACCAGGATAAGCTGTTCTGTGTATGAGATATTTAGAGGCAAGAAACCTTCAAAATGTTT	300
Db	241	ACCAGGATAAGCTGTTCTGTGTATGAGATATTTAGAGGCAAGAAACCTTCAAAATGTTT	300

301 ATCTCAAAATATAAGGGCGCTGACAGCTTTGACAGGACAACTGGACCTCGAGCTCCACA 360  
301 ATCTCAAAATATAAGGGCGCTGACAGCTTTGACAGGACAACTGGACCTCGAGCTCCACA 360  
361 ATGTTTCAGATCAAGGACAGGGGCACATATCAGTGTTCATTTCAATTAATTAAGGGCCCAAG 420  
361 ATGTTTCAGATCAAGGACAGGGGCACATATCAGTGTTCATTTCAATTAATTAAGGGCCCAAG 420  
421 GACTAGTTCCTCATGCAACAAATGAGTTCAGCTATCAGTGTTCGCTAACTGAGTCAAC 480  
421 GACTAGTTCCTCATGCAACAAATGAGTTCAGCTATCAGTGTTCGCTAACTGAGTCAAC 480  
481 CTGAATAAAGAGTAACTTCTAATAGAACAGAAATTCCTGGCATCATTAATTTGACCTGCT 540  
481 CTGAATAAAGAGTAACTTCTAATAGAACAGAAATTCCTGGCATCATTAATTTGACCTGCT 540  
541 CATCTATACAAAGGTTACCGAAGACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGAAAT 600  
541 CATCTATACAAAGGTTACCGAAGACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGAAAT 600  
601 CAACTACTAAGTATGATCTGTCTATGAGAAATCTCAAAATTAATGTGACAGAACTGTACA 660  
601 CAACTACTAAGTATGATCTGTCTATGAGAAATCTCAAAATTAATGTGACAGAACTGTACA 660  
661 AGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAGACACAAATGTGAGGCTCTTTGTG 720  
661 AGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAGACACAAATGTGAGGCTCTTTGTG 720  
721 CCTCAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAAC 780  
721 CCTCAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAAC 780  
781 CTAAGCAATAAGAGCCCTGAAAGAGGCACTTCTCTGGAATGCGGCTGTACTGTAAATGT 840  
781 CTAAGCAATAAGAGCCCTGAAAGAGGCACTTCTCTGGAATGCGGCTGTACTGTAAATGT 840  
841 TTGTTGTTTTTGTGGATGGTGTCTTTTAAACACTTAAGGAAAGAGGAGAGAGCGGC 900  
841 TTGTTGTTTTTGTGGATGGTGTCTTTTAAACACTTAAGGAAAGAGGAGAGAGCGGC 900  
901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGAGCAACAGACCA 960  
901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGAGCAACAGACCA 960  
961 ACAGAGAGTACCATACACGTACCTGAGAGATCTGATGAGCCAGTGTGTTAAACATTT 1020  
961 ACAGAGAGTACCATACACGTACCTGAGAGATCTGATGAGCCAGTGTGTTAAACATTT 1020  
1021 TGAAGACAGCTTCAAGGGGACAAATCAAGTAGGAAATGTTGGCTTGGCGTGTGACAT 1080  
1021 TGAAGACAGCTTCAAGGGGACAAATCAAGTAGGAAATGTTGGCTTGGCGTGTGACAT 1080

## RESULT 2

US-09-326-186B-226  
; Sequence 226, Application US/09326186B  
; Patent No. 631906  
; GENERAL INFORMATION:  
; APPLICANT: Bennett, Clarence Frank  
; APPLICANT: Vickers, Timothy A.  
; TITLE OF INVENTION: Oligonucleotide Compositions and Methods for the  
; FILE OF INVENTION: Modulation of the Expression of B7 Protein  
; FILE REFERENCE: ISPH-0376  
; CURRENT APPLICATION NUMBER: US/09/326,186B  
; CURRENT FILING DATE: 1999-06-04  
; PRIOR FILING DATE: 1999-06-04  
; PRIOR APPLICATION NUMBER: 08/777,266  
; NUMBER OF SEQ ID NOS: 226  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 226  
; LENGTH: 1424  
; TYPE: DNA  
; ORGANISM: Homo sapien

## US-09-326-186B-226

Query Match 53.8%; Score 580.6; DB 3; Length 1424;  
Best Local Similarity 75.9%; Pred. No. 2.3e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;  
Qy 1 GTTCTGTGTTCTCGGGAATGTCACAGCTTTATACATCTGCTCTCTG---GAGCTGC 57  
Db 62 GCTTCTGTGTTCTCGGGAATGTCGTGCTTATGATCTGCTCTCTTTTGGAGCTAC 121  
Qy 58 AGTGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGATGGCCC 117  
Db 122 AGTGACAGGCAATTTGTGACAGCACTATGGGACTGAGTAACTCTCTCTGATGGCCT 181  
Qy 118 TCCTGCTCTCTGCTGTTCTTCCATGAGGTCAGCATATTTCAACAGAGCTCGGAAAC 177  
Db 182 TCCTGCTCTCTGCTGCTCTCTGAGATTCAGCTTATTTCAATGAGCTGAGAC 241  
Qy 178 TGCCATGCAATTTTCAAACTCTCAAAACATTAAGCTGAGTGTGAGCTGTATTTTGGC 237  
Db 242 TGCCATGCAATTTTCAAACTCTCAAAACATTAAGCTGAGTGTGAGCTGTATTTTGGC 301  
Qy 238 AGGACAGGCAATGCTGTTCTGTATGATATTCAGAGGCAAGAGAACCTCAAAATG 297  
Db 302 AGGACAGGCAATGCTGTTCTGTATGATATTCAGAGGCAAGAGAACCTCAAAATG 361  
Qy 298 TTCTATCTCAATATTAAGGGCGTTAAGGCTTTTGAACAGGACAACTGAGACCTGAGCTCC 357  
Db 362 TTCTATCTCAATATTAAGGGCGTTAAGGCTTTTGAACAGGACAACTGAGACCTGAGCTTC 421  
Qy 358 ACAATGTTTCAGATCAAGGACAGAGGCAATATCACTGTTTTCATTTCAATTAAGAGGCCCA 417  
Db 422 ACAATGTTTCAGATCAAGGACAGAGGCAATATCACTGTTTTCATTTCAATTAAGAGGCCCA 481  
Qy 418 AAGGACTAGTTCCTCACTGACCAAAATGAGTTCGACTATCAGTGTCTGCTTCACTTCACTGTC 477  
Db 482 AAGGACTAGTTCCTCACTGACCAAAATGAGTTCGACTATCAGTGTCTGCTTCACTTCACTGTC 541  
Qy 478 AACCTGAATAAAGTAACTCTTAATGAACAGAAATTTCTGGCATCAATAATTTGACCT 537  
Db 542 AACCTGAATAAAGTAACTCTTAATGAACAGAAATTTCTGGCATCAATAATTTGACCT 598  
Qy 538 GCTCATCTATACAAAGGTTTACCAGAACCTTAAGAGAGATGTATTTTTCAGCTAAACACTGAGA 597  
Db 599 GCTCATCTATACAAAGGTTTACCAGAACCTTAAGAGAGATGTATTTTTCAGCTAAACACTGAGA 658  
Qy 598 ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATGTCAGACAGACTGT 657  
Db 659 ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATGTCAGACAGACTGT 718  
Qy 658 ACAAGTCTTCTATCAGCTTCTCTTTTTCAGTCCCTGAAAG---CACACAATGTGAGCTCT 714  
Db 719 ACAAGTCTTCTATCAGCTTCTCTTTTTCAGTCCCTGAAAG---CACACAATGTGAGCTCT 778  
Qy 715 TTGTGCTCTGAACTCGAGACACTGAGATGCTGCTCTCCCTACCTTTTCAATATAGATG 774  
Db 779 TTGTGCTCTGAACTCGAGACACTGAGATGCTGCTCTCCCTACCTTTTCAATATAGATG 832  
Qy 775 CACAACTTAAGGATAAAGACCTGAAACAGGCGCACTTCTCTGGAATTCGGCTGTACTTG 834  
Db 833 ---AGCTTGGAGACCTTCAGCCTCCCGAGACCAATTCCTTGGATTTACAGCTGTACTTC 889  
Qy 835 TAATGTTGTTGTTTGTGGGATGTTGCTCTTTTAAACACTAAGGAAAGAGAGAGAGA 894  
Db 890 CAAAGTATTAATATGTTGATGTTTCTGCTTAATCTATGGAATGGAAGAGAGA 949  
Qy 895 AGCAGCTTGGCCCTCTCATGAATGTGAACCACTCAAGAGGAGAGAGAGAGAGAGAAC 954  
Db 950 AGCAGCTTGGCCCTCTCATGAATGTGAACCACTCAAGAGGAGAGAGAGAGAGAGAAC 1009  
Qy 955 AGACCAACGAAAGAGTACCATACGAGTCTGAGAGATCTGATGAAGGCCCACTGTG--- 1011  
Db 1010 AGACCAACGAAAG 1069

Qy 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAATCA 1048  
Db 1070 TTAAGAATTCGAAGACATCTTCATGCGCAAAAGTGA 1106

RESULT 3

US-09-441-411-21  
; Sequence 21, Application US/09441411  
; Patent No. 6734172  
; GENERAL INFORMATION:  
; APPLICANT: Scholler, Nathalie B.  
; APPLICANT: Delsis, Mary L.  
; APPLICANT: Hellstrom, Inggerd  
; APPLICANT: Hellstrom, Karl Erik  
; TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES  
; FILE REFERENCE: 730033.409  
; CURRENT APPLICATION NUMBER: US/09/441.411  
; CURRENT FILING DATE: 1999-11-16  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PastSeq for Windows Version 4.0  
; SEQ ID NO 21  
; LENGTH: 1424  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-441-411-21

Query Match 53.8%; Score 580.6; DB 4; Length 1424;  
Best Local Similarity 75.9%; Pred. No. 2.3e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

Qy 1 GTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGCTCTG---GGAGTCG 57  
Db 62 GCTCTGTGTTCTCGGGAATGTCGCTGTCTTATGATCTGCTCTTTTGGAGTAC 121  
Qy 58 AGTGGATGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGCC 117  
Db 122 AGTGACAGGCAATTTGTGACAGCACTATGGGACTGAGTAACATCTCTCTGTGATGCC 181  
Qy 118 TCCTGCTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAAGAGCTGGAGNAC 177  
Db 182 TCCTGCTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAAGAGCTGGAGNAC 241  
Qy 178 TCCATGCAATTTTACAACTCTCAAAATCAAGCTGATGAGCTGATGATTTTGGC 237  
Db 242 TCCATGCAATTTTACAACTCTCAAAATCAAGCTGATGAGCTGATGATTTTGGC 301  
Qy 238 AGGACAGGTAAGCTGTTCTGTATGAGATATTCAGAGCAAGAGCAACCTCAAAATG 297  
Db 302 AGGACAGGTAAGCTGTTCTGTATGAGATATTCAGAGCAAGAGCAATTTGACAGTG 361  
Qy 298 TTCTATCTCAATATAGGCGGTACAGCTTTGACAGGCACTGGAGCCCTGAGACTCC 357  
Db 362 TTCTATCAAGTATATGGCGGCAAGTTTGTATTCGAGAGTTGGAGCCCTGAGACTTC 421  
Qy 358 ACATGTTTCAGATCAAGGACAGGCGACATATCACTGTTTCAATTCATTATAAGGGCCCA 417  
Db 422 ACAATCTTCAGATCAAGGACAGGCGCTTGTATCAATGATATCAATCAACAAAGGCCCA 481  
Qy 418 AAGGACTAGTTCCCATGCCCAATGAGTTCTGACCTATCACTGCTGCTCACTCACTG 477  
Db 482 CAGGATGATTCGATCCACAGATGATTTGAGTCTGAGTCTGCTCACTCACTCACTG 541  
Qy 478 AACCTGTAATTAACAGTAACTTTCTAATAGAACAGAAATTTTGGCATCAATTAATTTGACCT 537  
Db 542 AACCTGTAATTAACAGTAACTTTCTAATAGAACAGAAATTTTGGCATCAATTAATTTGACCT 598  
Qy 538 GCTCATCTATACAGGTTTACCAGACCTTAAGAGATGATTTTTCAGCTAAACACTGAGA 597  
Db 599 GCTCATCTATACAGGTTTACCAGACCTTAAGAGATGATTTTTCAGCTAAACACTGAGA 658  
Qy 598 ATTCAACTACTAAGTATGATCTGTCATGAGAGAAATCTCAAAATATGTCAGAGACTGT 657

Db 659 ATTCAACTATCGAGTATGATGTTATTCAGAGAAATCTCAAGATATATGTCACAGAACTGT 718  
Qy 658 ACAAGCTTTTCTATCAGCTTGCCTTTTCACTGCTCTGAAG---CACAAATGTGACGCTCT 714  
Db 719 AGAGCGTTTCCATCAGCTTGTCTGTTTTCATTCCTGATGTATGAGCAATATGACCATCT 778  
Qy 715 TTTTGCCCTGAAACTCGAGACACTGAGATGCTCTCCCTTACCTTTTCAATATAGATG 774  
Db 779 TCTGATTTCTGGAACCTGACA---AGAGCGGCTTTTATCTTCCACCTTTCTCTATAG--- 832  
Qy 775 CACAACTTAAGGATAAGAGCCCTGAAACAGGCGCACTCTCTCTGGATTTGGCTGTACTTG 834  
Db 833 ---AGCTTGAGGACCTCAGCTCTCCCAACACCAATCTCTTGGATTTACAGCTGTACTTC 889  
Qy 835 TAATGTTTGTGTTTGTGGATGCTCTCTTTTAAACACTTAAGGAAAGAGAAAGA 894  
Db 890 CAACAGTTTATTATATGTTGATGTTTCTGCTTAATCTATGGAATGGAAGAAAGA 949  
Qy 895 AGCAGCTGGCCCTCTCATGAATGTCAGAACCATCAAAAGGAGAGAAAGAGCAAC 954  
Db 950 AGCGCTCTGCACTCTTATTAATGTCGAACCAACCAATGGAAGGAGAGAGTGAAC 1009  
Qy 955 AGACCAACGAAAGAGTACCATACCATCTACCTGAGAGATCTGATGAAGCCCACTGTG--- 1011  
Db 1010 AGACCAAGAAAGAGAAATCCATATACCTGAAAGATCTGATGAAGCCCACTGTGTT 1069  
Qy 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAATCA 1048  
Db 1070 TTAAGAATTCGAAGACATCTTCATGCGCAAAAGTGA 1106

RESULT 4

PCT-US94-09642-1  
; Sequence 1, Application PC/TUS9409642  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: Purified Mammalian CTLA-4 Binding  
; TITLE OF INVENTION: Protein and Related Reagents  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Schering-Plough Corporation, M-3-W  
; STREET: One Girarda Farms  
; CITY: Madison  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07940-1000  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: Apple Macintosh IIfx  
; OPERATING SYSTEM: System Software 7.1  
; SOFTWARE: Microsoft Word 5.1a  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/09642  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/120,606  
; FILING DATE: 13-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/116,882  
; FILING DATE: 03-SEP-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Blasdale, John H. C.  
; REGISTRATION NUMBER: 31,895  
; REFERENCE/DOCKET NUMBER: DX0390K1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-822-7398  
; TELEFAX: 201-822-7039  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1428 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 152..1123  
PCT-US94-09642-1

Query Match 53.8%; Score 580.6; DB 5; Length 1428;  
Best Local Similarity 75.9%; Pred. No. 2.3e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTTCTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57  
DB 66 GCTTCTGTTCTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTGTTTGGAGCTAC 125  
QY 58 AGTGGATGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGTGATGGCCC 117  
DB 126 AGTGGACAGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGTGATGGCCC 185  
QY 118 TCTGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGGAGAAC 177  
DB 186 TCTGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGGAGAAC 245  
QY 178 TCCCATGCAATTTTACAACTCTCAAAACATTAAGCTGTGATGAGTGTGATGTTTGGC 237  
DB 246 TCCCATGCAATTTTACAACTCTCAAAACATTAAGCTGTGATGAGTGTGATGTTTGGC 305  
QY 238 AGGACAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATG 297  
DB 306 AGGACAGGAAATCTGGTCTGTATGAGATATTCAGAGGCAAGAGAAATTTGACAGTG 365  
QY 298 TTCTCTCTCAAAATATAAGGCGGTACCAAGCTTTGACAGGCAAACTGGACCTGAGACTCC 357  
DB 366 TTCTCTCTCAAAATATAAGGCGGTACCAAGCTTTGACAGGCAAACTGGACCTGAGACTTC 425  
QY 358 ACATGTTTCAGATCAAGGACAGGACATATACATCTGTTTCATTTATTAAGGCGCCA 417  
DB 426 ACATGTTTCAGATCAAGGACAGGACATATACATCTGTTTCATTTATTAAGGCGCCA 485  
QY 418 AAGGACTAGTTTCCATGCAACCAATGAGTTTCGACTATGAGTCTTGTCTTAACTTCAGTC 477  
DB 486 CAGGAATGATTCGATCCACCAGATGAATTTCTGAACTGTCTGAGTCTTGTCTTAACTTCAGTC 545  
QY 478 AACCTGAAATTAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537  
DB 546 AACCTGAAATTAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 602  
QY 538 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGACATGTTATTTTCAGTAAACATGAGA 597  
DB 603 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGACATGTTATTTTCAGTAAACATGAGA 662  
QY 598 ATTCAACTATGATATGATATCTGTCAAGAGAAATCTCAAAATTAATGTCAGAGAACTGT 657  
DB 663 ATTCAACTATGATATGATATCTGTCAAGAGAAATCTCAAAATTAATGTCAGAGAACTGT 722  
QY 658 ACAAGCTTCTATCAGCTTCTCTTTCAGTCTCTCTGAAAG---CACAAATGTCAGGCTCT 714  
DB 723 ACGAGTTTCCATCAGCTTCTCTTTCAGTCTCTCTGAAAG---CACAAATGTCAGGCTCT 782  
QY 715 TTTGTCCTGAACTGAGAGCACTGGAGATGCTCTCTCTGAAAG---CACAAATGTCAGGCTCT 774  
DB 783 TCTGTATTTCTGAACTGAGCA---AGACGCGCTTTTATCTTCACTCTTCTCTATAG--- 836  
QY 775 CACAACTTAAGGATTAAGACCTTGAAACAAAGGCGCACTTCTCTGAAATGCGGCTGTACTTG 834  
DB 837 ---AGCTTGAAGGACCTCAGCTCCCGCAGACCAATTCCTTGGATTAAGCTGTACTTC 893  
QY 835 TAATGTTTGTGTTTGTGAGAGTGTCTCTTTTAAACACTAAGGAAAGAGAGAGCA 894  
DB 894 CAACAGTTTATATGTCAGTGTGTTTCTGTTCTTAAATTTCTATGAAATGGAAGAGAG 953  
QY 895 AGGAGCTGGCCCTCTCATGAAATGTGAATGTGAACATCAAAAGGAGAGAGAGAGCAAC 954

DB 954 AGGGCTCGCAACTCTTATTAATCTGGAAACCAACACATGAGGAGGAGAGAGTGAAC 1013  
QY 955 AGACCAACGAAAGAGTACCATACAGTACCTGAGGAGATCTGATGAAGCCAGTGTG--- 1011  
DB 1014 AGACCAACGAAAGAGGAAATCCATATACCTGAAAGATCTGATGAAGCCAGGCGTGT 1073  
QY 1012 TTAACATTTTGAAGACGCTCAGGGGACAAAATCA 1048  
DB 1074 TTAAGTTCGAAGACATCTTCATGCGACAAAAGTGA 1110

RESULT 5  
US-09-949-016-5261  
; Sequence 5261: Application US/09949016  
; Patent No.: 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5261  
; LENGTH: 1600  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-5261

Query Match 53.8%; Score 580.6; DB 4; Length 1600;  
Best Local Similarity 75.9%; Pred. No. 2.5e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTTCTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57  
DB 62 GCTTCTGTTCTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTCTTTTGGAGCTAC 121  
QY 58 AGTGGATGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCC 117  
DB 122 AGTGGACAGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTTGTGATGGCT 181  
QY 118 TCTGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAAC 177  
DB 182 TCTGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAAC 241  
QY 178 TCCCATGCAATTTTACAACTCTCAAAACATTAAGCTGAGTCTGATGATGATTTTGGC 237  
DB 242 TCCCATGCAATTTTACAACTCTCAAAACATTAAGCTGAGTCTGATGATGATTTTGGC 301  
QY 238 AGGACAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATG 297  
DB 302 AGGACAGGAAATCTGTTCTGATGAGTATATCTTGAAGCAAGAAATTTGACAGTG 361  
QY 298 TTCTATCTCAAAATATAAGGCGCGTAAAGCTTTTGAACAGGACAACTGAGACCTGAGACTCC 357  
DB 362 TTCTATCTCAAAATATAAGGCGCGTAAAGCTTTTGAATTCGACAGAGTTGGAAGCTGAGCTTC 421  
QY 358 ACAATGTTTCAGATCAAGGACAGGCAATATCATCTGTTTTCATTTATTAAGAGGCGCCA 417  
DB 422 ACAATGTTTCAGATCAAGGACAGGCGCTTGTATCAATGATATCATCTCATCAAAAGGCCA 481  
QY 418 AAGGACTAGTTTCCATGCAAGGACAGGCAATGAGTCTGAGCTATCATCTGATCTTCACTTCACTGTC 477  
DB 482 CAGGAAATGTTCCATGCAAGGACAGGCAATGAGTCTGAGTCTGAGTCTGATCTTCACTTCACTGTC 541  
QY 478 AACCTGAAATTAACAGTAACTTCTTAAATAGAACAGAAATTTCTGGGACATCAAAATTTGACCT 537

[illegible]

## RESULT 6

US-08-205-697A-24  
Sequence 24, Application US/08205697A  
Patent No. 6218510  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Borriello, Francescopaolo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
TITLE OF INVENTION: No. 6218510d1 Forms of T Cell Costimulatory Molecules  
TITLE OF INVENTION: and Uses Thereof  
NUMBER OF SEQUENCES: 61  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/205,697A  
FILING DATE: 02-Mar-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragouras, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: BWI-120  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400



Patent No. 608180  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Borriello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
TITLE OF INVENTION: No. 608180el Forms of T Cell Costimulatory  
TITLE OF INVENTION: Molecules and Uses Therefor  
FILE REFERENCE: BWT-120CPADV  
CURRENT APPLICATION NUMBER: US/09/837,867A  
CURRENT FILING DATE: 2001-04-17  
PRIOR APPLICATION NUMBER: 08/205,697  
PRIOR FILING DATE: 1994-03-02  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: FASTSQ for Windows Version 4.0  
SEQ ID NO 24  
LENGTH: 1161  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (148)...(1134)  
US-09-837-867A-24

Query Match 51.2%; Score 552.6; DB 4; Length 1161;  
Best Local Similarity 74.6%; Pred. No. 2.7e-169;  
Matches 802; Conservative 0; Mismatches 234; Indels 39; Gaps 7;

QY 1 GTTCTGTTGTTCTCGGGATGTCAGTGGCTTATACATCTGCTCTG---CGAGCTCG 57  
DB 62 GCTTCTGTTGTTCTCGGGATGTCAGTGGCTTATACATCTGCTCTGTTTGAGCTAC 121  
QY 58 AGTGATGGGCAATTTGAGCA-----GCACTATGGGCTGAGTCA 99  
DB 122 AGTGAGGAGGCAATTTGAGCACTATGGATCCCACTGAGTCACTGAGTCA 181  
QY 100 CTCTCTGTTGATGGCTCTCTCTCTGTTGTTTCTCATGAAGTCAAGCATATT 159  
DB 182 TTGCTTGTGATGGCTCTCTCTCTGTTGTTTCTCATGAAGTCAAGCATATT 241  
QY 160 TCACAGAGCTGGAGCTGCGATGCTTATGAACTCTCAAACTCAAGCTGGATG 219  
DB 242 TCATGAGCTGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 301  
QY 220 AGCTGTAGTATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 279  
DB 302 AGCTAGTAGTATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 361  
QY 280 AAGAGACCTCAAAATGTTCTCAATATAGGAGGAGGAGGAGGAGGAGGAGG 339  
DB 362 AAGAGATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 421  
QY 340 ACTGAGCCTGAGCTCCAAATGTTGAGTCAAGGAGGAGGAGGAGGAGGAGGAG 399  
DB 422 GTTGAGCCTGAGCTCCAAATGTTGAGTCAAGGAGGAGGAGGAGGAGGAGG 481  
QY 400 TTCAATTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 459  
DB 482 TCCATCAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 541  
QY 460 TGCTGTCTACTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 519  
DB 542 TGCTGTCTACTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 598  
QY 520 GCATCATAAATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 579  
DB 599 TGATCAATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 658  
QY 580 TTCAGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 639  
DB 659 TTTGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 718  
QY 640 ATAATGTGACAGAGCTGTATCAAGCTTTCTATCAGCTTTTCTGCTTTTCTGAGGAG--- 696

719 ATAATGTGACAGAGCTGTATCAGAGCTTTTCCATCAGCTTGTCTGTCTTTCATTCCTGATGTA 778  
697 CACCAATGTGAGGCTCTTTTGTGCTTGAAGCTGAGACACACTGAGATGCTGCTCTCCC 756  
779 CGAGCAATATGACCATCTTCTGTATTCTGGAAGACTGACA---AGACGGGCTTTTATCTT 835  
757 TACCTTTCAATATATGATGACACACTTAAAGATAAAGACCTGAGACAGGAGGAGGAGGAGG 816  
836 CACCTTTCTCTATAG-----AGCTTGAAGCTTCTGAGCTTCTGCTGCTGCTGCTGCTGCT 889  
817 GATTTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 876  
890 GATTTACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 949  
877 TAAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 936  
950 GCAATGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1009  
937 AGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 996  
1010 AGAGG 1069  
997 ATGAGG 1048  
1070 ATGAGG 1124

RESULT 9  
PCT-US95-02576-24  
Sequence 24, Application PC/TUS9502576  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: Novel Forms of T Cell Costimulatory Molecules  
TITLE OF INVENTION: and Uses Therefor  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSES: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/02576  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/205,697  
FILING DATE: 02-Mar-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragourae, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: BWT-120CPPC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 24:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1161 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 148..1134  
PCT-US95-02576-24











Sequence 33, Application US/09042492D  
Patent No. 6162001  
GENERAL INFORMATION:  
APPLICANT: Cai, Zeling  
Applicant: Sprent, Jonathan  
Brunmark, Anders  
Jackson, Michael  
Peterson, Per A.  
TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS  
FOR ACTIVATION OF T-CELLS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Oleon & Hierl, Ltd.  
STREET: 20 No. 6362001th Wacker Drive, 36th Floor  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/042,492D  
FILING DATE: 16-Mar-1998  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Cepuritis, Talivaldis  
REGISTRATION NUMBER: 20,818  
REFERENCE/DOCKET NUMBER: 471.0 DIV.3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 580-1180  
TELEFAX: (312) 580-1189  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1002 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
SEQUENCE DESCRIPTION: SEQ ID NO: 33:  
US-09-042-492D-33

Query Match 49.4%; Score 533.2; DB 3; Length 1002;  
Best Local Similarity 75.3%; Pred. No. 5.3e-163;  
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

QY 79 GCACATATGGAGTCAAGCATATTTCAACAAGCTGGAGAACTGCGCATGCCATATTTACAAACT 198  
DB 20 GCACATATGGAGTCAAGCATATTTCAACAAGCTGGAGAACTGCGCATGCCATATTTACAAACT 79  
QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGCTGGAGAACTGCGCATGCCATATTTACAAACT 198  
DB 80 CTCCTCAAGATTCAAGCTATTTCAATGAGACTGCGCATGCCATATTTACAAACT 139  
QY 199 CTCCTCAAGATTCAAGCTATTTCAATGAGACTGCGCATGCCATATTTACAAACT 258  
DB 140 CTCCTCAAGATTCAAGCTATTTCAATGAGACTGCGCATGCCATATTTACAAACT 199  
QY 259 TGTATGAGATTTCAAGAGGCAAGAGAAACCTCAAAATGTTTCATCTCAAAATATAAGGGCC 318  
DB 200 TGAATGAGTATCTATAGGCAAGAGAAATTTGACAGTGTTCATCTCAAGTATATAAGGGCC 259  
QY 319 GTACCAAGCTTTGACAGAGCAACCTGCACTCCCAATGTTTCAGATCAAGAGCA 378  
DB 260 GCACAAAGTTTGTATTCGAGAGTGGAGCTTTCAGATCAAGAGCA 319  
QY 379 AGGCGCATATCACTGTTTCATTTATTAAGGGCCCAAGAGTGTTCCTCAAGTCAAC 438  
DB 320 AGGCGTTGTATCAAGTATCATCTATCAAAAGCCCAAGAGTGTTCCTCAAGTCAAC 379



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Db      260 GCACAGTTTGGATTCGGACAGTTGGACCTTGAGACTTCACAATCTTCAGATCAAGGACA 319
Qy      379 AGGGCACAATATCAGCTGTTCATTCATTATATAAGGGCCCAAGAGGACTAGTTCCCATGCACC 438
Db      320 AGGGCTTGTATCATATGATCATCCATCACAAAAGCCCAAGAGGATGATTCGCATCCACC 379
Qy      439 AATAGCTTCTGACCTATGCTGCTTGAATCTTCAGTCAACCTGGAATACAGTAACCTT 498
Db      380 AGTGTATCTGAACTCTGAGTCTGCTTGAATCTTCAGTCAACCTGGAATAGTACCAATTT 439
Qy      499 CTAATAGAACAGAAATCTTGGCATCATAAATTTGACCTGCTCATCTATACAAGTTACC 558
Db      440 CTAATATAACAGAAA---TGTGTACATAAAATTTGACCTGCTCATCTATACAAGTTACC 496
Qy      559 CAGAACCTTAAGGAGATGATTTTTCAGCTAAACACACTGAGAAATTCAACTACTAAGTATGATA 618
Db      497 CAGAACCTTAAGGAGATGATTTTTCAGCTAAACACACTGAGAAATTCAACTACTAAGTATGATA 556
Qy      619 CTGTCAATGAGAAATCTCAAAATATGTCAGACAGAACTGTACAAAGTTCTATCAAGCTTGC 678
Db      557 GTATTATGACAGAAATCTCAAGATAATGTCAAGAACTGTACAGAACTGTACAGCTTGT 616
Qy      679 CTTTTCAGTCCCTGAAG---CACACAATGTGAGGCTCTTTTGTGCCCTGAAACTGGAGA 735
Db      617 CTGTTTCATCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTCGGAACTGACA 676
Qy      736 CACTGGAGATGCTGCTCCCTACCTTCATATATAGATGCAACACTAAGGNTAAGACC 795
Db      677 ---AGACGGGCTTTTATCTTCACCTTCTCTATAG-----AGCTTGGAGCCCTCAGC 727
Qy      796 CTGAACAAAGGCCACTTCTCTGATTCGGCTGTACTTGTAAATGTTTGTGTTTGTG 855
Db      728 CTCCGCCAGACCAATCTCTGGATTAAGCTGTACTTCCAAAGTTATTATATGTGTGA 787
Qy      856 GGATGCTGCTTTTAAACACTAAGGAAAGGAAAGCAAGCAGCCTGGCCCTCTCATG 915
Db      788 TGGTTTCTGTCTAATTTCTATGGAATGGAAGAGAGAGCGGCTCGCACTCTTATA 847
Qy      916 AATGTGAACCATCAAAAGGGAGAGAAAGAGAGCAACAGACCAAGAGAGTACCAT 975
Db      848 AATGTGAACCAACACAAATGGAGAGGAGAGAGTGAACAGACCAAGAGAGAGAGAGAG 907
Qy      976 ACCACGTACCTGAGAGATCTGATGAAGCCAGCTGTG---TTAACAATTTGAAGACAGCCT 1032
Db      908 TCCATATACCTGAAGATCTGATGAAGCCAGCTGTGTTTATAAAGTTGAGAGACATCTT 967
Qy      1033 CAGGGGACAAAATCA 1048
Db      968 CATGGACAAAAGTGA 983

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Search completed: August 20, 2005, 06:30:19  
Job time : 227 secs

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Query Match      100.0%; Score 1080; DB 9; Length 1080;
Best Local Similarity 100.0%; Pred. No. 1.6e-308;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCGGGAATGTCACGAGCTTATACATCTGCTCTGGGAGCTGCAGT 60
Db 1 GTTCTGTGTTCTCGGGAATGTCACGAGCTTATACATCTGCTCTGGGAGCTGCAGT 60

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QY 61 GGATGGGCAATTTGTGACGACACTATGGGACTGAGTCACACTCTCTTGTGATGGCCTCC 120
DB |||||
QY 121 TGCTCTCTGGTGTCTTCTCATGAGCTCAAGCTATTTCAACAGAGCTGGAGACTGC 180
DB |||||
QY 181 CATGCCATTTTACAACTCTCAAAACATTAAGCTCGATGAGCTGGTAGTATTTTGGCAGG 240
DB |||||
QY 241 ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300
DB |||||
QY 301 ATCTCAATATTAAGGCGCGTACAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
DB |||||
QY 361 ATGTTTCAGATCAAGGACAGGGCAATATCACTGTTTCATTTCAATATAAAGGCCCAAG 420
DB |||||
QY 421 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTGCTAACTCAGTCAAC 480
DB |||||
QY 481 CTGAAATAACAGTAACTCTTAATAGAAACAGAAAATTTCTGGCATCATTAATTTGACTGCT 540
DB |||||
QY 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGAAAT 600
DB |||||
QY 601 CAATCTATAGTATGATCTGTCAGAGAAATCTCAAAATATGTCAGAGACTGTACA 660
DB |||||
QY 661 ACGTTTCTATCAGCTTGCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
DB |||||
QY 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCTCTAGTCAATATAGATGCAACAAC 780
DB |||||
QY 781 CTAGGATTAAGACCTTGACAGGCGCACTTCTCTGGAATGCGGCTGTAATGT 840
DB |||||
QY 841 TTGTTGTTTTTGTGGGATGGTGTCTTTAAACACTAAGGAAAGGAAGAAAGCAGC 900
DB |||||
QY 901 CTGGCCCTCTCATGATGTGAACCATCAAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB |||||
QY 961 ACGAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTTTAACTTT 1020
DB |||||
QY 1021 TGAAGACAGCTCAGGGGCAAAAATCAGTAGGAAATGGTGGCTTGGCGTGTGACAAAT 1080
DB |||||
QY 1071 TGAAGACAGCTCAGGGGCAAAAATCAGTAGGAAATGGTGGCTTGGCGTGTGACAAAT 1080
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## RESULT 2

US-09-303-040-5

; Sequence 5, Application US/09303040

```
Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winelow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD86, Feline CD88, Feline CD28, Feline CD14-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
; US-09-303-040-5

Query Match 100.0%; Score 1080; DB 9; Length 1080;
Best Local Similarity 100.0%; Pred. No. 1.6e-308;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTCTGTGTTCTCTGGGAATGTCACTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT 60
DB 1 GTTCTCTGTGTTCTCTGGGAATGTCACTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT 60
QY 61 GGATGGGCAATTTGTGACGACACTATGGGACTGAGTCACACTCTCTTGTGATGGCCTCC 120
DB 61 GGATGGGCAATTTGTGACGACACTATGGGACTGAGTCACACTCTCTTGTGATGGCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCTCATGAGCTCAAGCTATTTCAACAGAGCTGGAGACTGC 180
DB 121 TGCTCTCTGGTGTCTTCTCATGAGCTCAAGCTATTTCAACAGAGCTGGAGACTGC 180
QY 181 CATGCCATTTTACAACTCTCAAAACATTAAGCTCGATGAGCTGGTAGTATTTTGGCAGG 240
DB 181 CATGCCATTTTACAACTCTCAAAACATTAAGCTCGATGAGCTGGTAGTATTTTGGCAGG 240
QY 241 ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300
DB 241 ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300
QY 301 ATCTCAATATTAAGGCGCGTACAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
DB 301 ATCTCAATATTAAGGCGCGTACAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
QY 361 ATGTTTCAGATCAAGGACAGGGCAATATCACTGTTTCATTTCAATATAAAGGCCCAAG 420
DB 361 ATGTTTCAGATCAAGGACAGGGCAATATCACTGTTTCATTTCAATATAAAGGCCCAAG 420
QY 421 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTGCTAACTCAGTCAAC 480
DB 421 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTGCTAACTCAGTCAAC 480
QY 481 CTGAAATAACAGTAACTCTTAATAGAAACAGAAAATTTCTGGCATCATTAATTTGACTGCT 540
DB 481 CTGAAATAACAGTAACTCTTAATAGAAACAGAAAATTTCTGGCATCATTAATTTGACTGCT 540
QY 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGAAAT 600
DB 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGAAAT 600
QY 601 CAATCTATAGTATGATCTGTCAGAGAAATCTCAAAATATGTCAGAGACTGTACA 660
DB 601 CAATCTATAGTATGATCTGTCAGAGAAATCTCAAAATATGTCAGAGACTGTACA 660
QY 661 ACGTTTCTATCAGCTTGCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
DB 661 ACGTTTCTATCAGCTTGCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
QY 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCTCTAGTCAATATAGATGCAACAAC 780
DB 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCTCTAGTCAATATAGATGCAACAAC 780
QY 781 CTAGGATTAAGACCTTGACAGGCGCACTTCTCTGGAATGCGGCTGTAATGT 840
DB 781 CTAGGATTAAGACCTTGACAGGCGCACTTCTCTGGAATGCGGCTGTAATGT 840
QY 841 TTGTTGTTTTTGTGGGATGGTGTCTTTAAACACTAAGGAAAGGAAGAAAGCAGC 900
DB 841 TTGTTGTTTTTGTGGGATGGTGTCTTTAAACACTAAGGAAAGGAAGAAAGCAGC 900
QY 901 CTGGCCCTCTCATGATGTGAACCATCAAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
DB 901 CTGGCCCTCTCATGATGTGAACCATCAAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
QY 961 ACGAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTTTAACTTT 1020
DB 961 ACGAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTTTAACTTT 1020
QY 1021 TGAAGACAGCTCAGGGGCAAAAATCAGTAGGAAATGGTGGCTTGGCGTGTGACAAAT 1080
DB 1071 TGAAGACAGCTCAGGGGCAAAAATCAGTAGGAAATGGTGGCTTGGCGTGTGACAAAT 1080
```



Db 661 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGGACACAAATGTGAGCTCTTTTGTG 720  
Qy 721 CCTGAATCTGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 780  
Db 721 CCTGAATCTGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 780  
Qy 781 CTAAGGATTAAGACCCCTGACAGGCGGACCTCTCTGGAATGCGGCTGCTACTTGAATGT 840  
Db 781 CTAAGGATTAAGACCCCTGACAGGCGGACCTCTCTGGAATGCGGCTGCTACTTGAATGT 840  
Qy 841 TTGTTGTTTTTGTGGATGCTCTTTTAAACACATAAGGAAAGGAGAGAGAGAGCAGC 900  
Db 841 TTGTTGTTTTTGTGGATGCTCTTTTAAACACATAAGGAAAGGAGAGAGAGAGAGCAGC 900  
Qy 901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAGAGAGAGAGAGAGAGC 960  
Db 901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAGAGAGAGAGAGAGAGC 960  
Qy 961 ACAGAGAGTACCATACCTACCTGAGAGATCTGATGAGGCGGAGTGTGTAACATTT 1020  
Db 961 ACAGAGAGTACCATACCTACCTGAGAGATCTGATGAGGCGGAGTGTGTAACATTT 1020  
Qy 1021 TGAAGACAGCTCTCAGGGGACAAATCAGTAGAGAGAGAGAGAGAGAGAGAGAGAG 1080  
Db 1021 TGAAGACAGCTCTCAGGGGACAAATCAGTAGAGAGAGAGAGAGAGAGAGAGAGAG 1080

RESULT 3

US-10-790-396-25  
; Sequence 25, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Yang, Shumin  
; APPLICANT: Yang, Shumin  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-Cl-PCT  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn ver. 2.0  
; SEQ ID NO 25  
; LENGTH: 2830  
; TYPE: DNA  
; ORGANISM: Felis catus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (179)..(1174)  
US-10-790-396-25

Query Match 96.4%; Score 1041.2; DB 19; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 8.4e-297;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GTTCTGTGTTCTCGGGAATGTCAGTCTGAGCTTATATATCTGTTCTCTGGAGCTGCACT 60  
Db 117 GTTCTGTGTTCTCGGGAATGTCAGTCTGAGCTTATATATCTGTTCTCTGGAGCTGCACT 176  
Qy 61 GGATGGGCAATTTGTGAG 120  
Db 177 GGATGGGCAATTTGTGAG 236  
Qy 121 TGCTCTGTGTTCTTTCATGAG 180  
Db 237 TGCTCTGTGTTCTTTCATGAG 296

Qy 181 CATGCAATTTTCAAACTCTCAAAACATTAAGCTCGATGAGCTGTGTAGTATTTTGGCAGG 240  
Db 297 CATGCAATTTTCAAACTCTCAAAACATTAAGCTCGATGAGCTGTGTAGTATTTTGGCAGG 356  
Qy 241 ACCAGATTAAGCTGTCTGTATGAGATATTCAGAGGCAAGAGAGAGAGAGAGAGAGAG 300  
Db 357 ACCAGATTAAGCTGTCTGTATGAGATATTCAGAGGCAAGAGAGAGAGAGAGAGAGAG 416  
Qy 301 ATCTCAATATTAAGGCGGTACAGCTTTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360  
Db 417 ATCTCAATATTAAGGCGGTACAGCTTTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 476  
Qy 361 ATGTTTCAGATCAAGGAG 420  
Db 477 ATGTTTCAGATCAAGGAG 536  
Qy 421 GACTAGTTTCCCATATGAGTTTCTGAGCTATCAGCTATCAGTCTGCTTACTTCACTTCA 480  
Db 537 GACTAGTTTCCCATATGAGTTTCTGAGCTATCAGCTATCAGTCTGCTTACTTCACTTCA 596  
Qy 481 CTGAATTAACAGTAACTTCTTAATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540  
Db 597 CTGAATTAACAGTAACTTCTTAATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 656  
Qy 541 CATCTATCAAGAGTTTACCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
Db 657 CATCTATCAAGAGTTTACCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 716  
Qy 601 CAATCTATAGTATGATCTGTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660  
Db 717 CAATCTATAGTATGATCTGTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 776  
Qy 661 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGGACACAAATGTGAGCTCTTTTGTG 720  
Db 777 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGGACACAAATGTGAGCTCTTTTGTG 836  
Qy 721 CCTGAACTCGAGACACTGAG 780  
Db 837 CCTGAACTCGAGACACTGAG 896  
Qy 781 CTAAGGATTAAG 840  
Db 897 CTAAGGATTAAG 956  
Qy 841 TTGTTGTTTTTGTGGATGCTCTTTTAAACACATAAGGAAAGGAGAGAGAGAGAGAGAG 900  
Db 957 TTGTTGTTTTTGTGGATGCTCTTTTAAACACATAAGGAAAGGAGAGAGAGAGAGAGAG 1016  
Qy 901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAG 960  
Db 1017 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAG 1076  
Qy 961 ACAGAGAGTACCATACCTACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020  
Db 1077 ACAGAGAGTACCATACCTACCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1136  
Qy 1021 TGAAGACAGCTCTCAGGGGACAAAT 1046  
Db 1137 TGAAGACAGCTCTCAGGGGACAAAT 1162

RESULT 4

US-10-790-396-27/c  
; Sequence 27, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-Cl-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396



; CURRENT FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: Patent in Ver. 2.0  
 ; SEQ ID NO 27  
 ; LENGTH: 2830  
 ; TYPE: DNA  
 ; ORGANISM: Felis catus  
 US-10-790-396-27

Query Match 96.4%; Score 1041.2; DB 19; Length 2830;  
 Best Local Similarity 99.7%; Pred. No. 8.4e-297;  
 Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy	1	CTTTCTGTGTTCTCGGGAATGTCAGTCTGAGCTTATATACATCTGGTCTCTGGGAGCTGCACT	60
Db	2714	CTTTCTGTGTTCTCGGGAATGTCAGTCTGAGCTTATATACATCTGGTCTCTGGGAGCTGCACT	2655
Qy	61	GGATGGGCAATTTGTGACGACACTATGGGACTGAGTCACTCTCTTTGTGATGGCCCTCC	120
Db	2654	GGATGGGCAATTTGTGACGACACTATGGGACTGAGTCACTCTCTTTGTGATGGCCCTCC	2595
Qy	121	TGCTCTCTGTGTTCTTCATGAGAGTCAAGCATATTTCAACAGACTGGGAGACTGC	180
Db	2594	TGCTCTCTGTGTTCTTCATGAGAGTCAAGCATATTTCAACAGACTGGGAGACTGC	2535
Qy	181	CATGCCATTTTACAACTCTCAAACTATGAGTGGAGTGGAGTCTGTAGTATTTTGGCAGG	240
Db	2534	CATGCCATTTTACAACTCTCAAACTATGAGTGGAGTGGAGTCTGTAGTATTTTGGCAGG	2475
Qy	241	ACAGGATAGCTGTTCTGTATGATGATTTTCAAGGCAAGAGAACTCTCAAAATGTTT	300
Db	2474	ACAGGATAGCTGTTCTGTATGATGATTTTCAAGGCAAGAGAACTCTCAAAATGTTT	2415
Qy	301	ATCTCAATATTAAGGGCGGTACAGCTTTGACAGGCACTGGACCTTGAGACTCCACA	360
Db	2414	ATCTCAATATTAAGGGCGGTACAGCTTTGACAGGCACTGGACCTTGAGACTCCACA	2355
Qy	361	ATGTTTCAGATCAAGGCAAGGGCACATATCTGTTTCAATTCATTAATAAGGGCCCAAG	420
Db	2354	ATGTTTCAGATCAAGGCAAGGGCACATATCTGTTTCAATTCATTAATAAGGGCCCAAG	2295
Qy	421	GACTAGTTCCTGATGACCAATGAGTTCTGACCTATGAGTCTGCTTAAGCTTCAGTCAAC	480
Db	2294	GACTAGTTCCTGATGACCAATGAGTTCTGACCTATGAGTCTGCTTAAGCTTCAGTCAAC	2235
Qy	481	CTGAATAACAGTAATCTCTTAATAGAACAGAAAATTTGGCACTAATAATTTGACCTGT	540
Db	2234	CTGAATAACAGTAATCTCTTAATAGAACAGAAAATTTGGCACTAATAATTTGACCTGT	2175
Qy	541	CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTTATTTTCACTAAGCACTGAGAAAT	600
Db	2174	CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTTATTTTCACTAAGCACTGAGAAAT	2115
Qy	601	CAACTACTAGTATGATCTGTCATGAGAAATCTCAAAATATGTCAGAGACTGTACA	660
Db	2114	CAACTACTAGTATGATCTGTCATGAGAAATCTCAAAATATGTCAGAGACTGTACA	2055
Qy	661	ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG	720
Db	2054	ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG	1995
Qy	721	CCCTGAACTGGAGACTGGAGTGTCTCTCCCTACCTTTTCAATATAGATGACACAC	780
Db	1994	CCCTGAACTGGAGACTGGAGTGTCTCTCCCTACCTTTTCAATATAGATGACACAC	1935
Qy	781	CTAAGGATAAAGCCCTGAAACAGGCACTTCTCTGATTTGGGCTGTACTGTATATGT	840

Db	1934	CTAAGGATAAAGACCCCTGAAACAGGCCCACTTCTCTGATTTGGCGGTACTTGTATATGT	1875
Qy	841	TTGTTGTTTTTTTGTGGGATGTTGTTCTTTTAAACACTAAGCAAGCAAGCAAGCAAGCAGC	900
Db	1874	TTGTTGTTTTTTTGTGGGATGTTGTTCTTTTAAACACTAAGCAAGCAAGCAAGCAAGCAGC	1815
Qy	901	CTGGCCCTCTCTCATGTAATGTGAACCATCAAAAGGAGAGAAAGAGAGCAACACAGACCA	960
Db	1814	CTGGCCCTCTCTCATGTAATGTGAACCATCAAAAGGAGAGAAAGAGAGCAACACAGACCA	1755
Qy	961	ACGAAAGAGTACCATACACCTGAGAGATCTGATGAAGCCCACTGTGTTTAAACATTT	1020
Db	1754	ACGAAAGAGTACCATACACCTGAGAGATCTGATGAAGCCCACTGTGTTTAAACATTT	1695
Qy	1021	TGAAGACAGCTTCAGGGGCAAAAT 1046	
Db	1694	TGAAGACAGCTTCAGGGGCAAAAT 1669	

RESULT 5  
 US-10-790-396-28  
 ; Sequence 28, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim. Gek-Ke  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; FILE REFERENCE: IN-1-CL-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396  
 ; PRIOR FILING DATE: 2004-03-01  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: Patent in Ver. 2.0  
 ; SEQ ID NO 28  
 ; LENGTH: 996  
 ; TYPE: DNA  
 ; ORGANISM: Felis catus  
 US-10-790-396-28

Query Match 90.7%; Score 979.2; DB 19; Length 996;  
 Best Local Similarity 99.7%; Pred. No. 1.1e-278;  
 Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy	63	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCCTCTG	122
Db	1	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCCTCTG	60
Qy	123	CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA	182
Db	61	CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA	120
Qy	183	TGCCATTTTCAAACTCTCAAAACATAGCCCTGAGTGGTAGTGTAGTATTTTGGCAGGAC	242
Db	121	TGCCATTTTCAAACTCTCAAAACATAGCCCTGAGTGGTAGTGTAGTATTTTGGCAGGAC	180
Qy	243	CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAAAGCCCTCAAAATGTTTCAAT	302
Db	181	CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAAAGCCCTCAAAATGTTTCAAT	240
Qy	303	CTCAATATTAAGGGCCGTACAGCTTTTGAAGAGCAACTGCACTGGAGACTCCCAAT	362
Db	241	CTCAATATTAAGGGCCGTACAGCTTTTGAAGAGCAACTGCACTGGAGACTCCCAAT	300
Qy	363	CTTCAGATCAAGGCAAGGCACTATCTGTTTCTTTCATTTATTAAGGGCCCAAGGA	422
Db	301	CTTCAGATCAAGGCAAGGCACTATCTGTTTCTTTCATTTATTAAGGGCCCAAGGA	360

Qy 423 CTAGTTCCATGACCAAAAGTCTGACCTATCATGCTGCTTGTCTTAACCTCAGTCAACCT 482  
Db 361 CTAGTTCCATGACCAAAAGTCTGACCTATCATGCTGCTTGTCTTAACCTCAGTCAACCT 420  
Qy 483 GAAATAACAGTAACCTTCTAATAGAACAGAAAAATCTGGCATCATATAATTTGACCTGCTCA 542  
Db 421 GAAATAACAGTAACCTTCTAATAGAACAGAAAAATCTGGCATCATATAATTTGACCTGCTCA 480  
Qy 543 TCTATACAGGTATACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACATGAGATTCA 602  
Db 481 TCTATACAGGTATACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACATGAGATTCA 540  
Qy 603 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATATGATGACAGAACTGTACAAC 662  
Db 541 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATATGATGACAGAACTGTACAAC 600  
Qy 663 GTTCTCTATCAGCTTGCCTTTTTCAGTCCCTGAGACACACAAATGTGAGCGCTTTTGTGCC 722  
Db 601 GTTCTCTATCAGCTTGCCTTTTTCAGTCCCTGAGACACACAAATGTGAGCGCTTTTGTGCC 660  
Qy 723 CTGAACTGGAGACATCTGGAGATGCTGCTCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGCT 782  
Db 661 CTGAACTGGAGACATCTGGAGATGCTGCTCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGCT 720  
Qy 783 AAGGATAAAGACCTCTGAACCAAGGCCACTTCTCTGGATGCGGCTGTACTTGTAAATGTTT 842  
Db 721 AAGGATAAAGACCTCTGAACCAAGGCCACTTCTCTGGATGCGGCTGTACTTGTAAATGTTT 780  
Qy 843 GTTGTGTTTGTGGATGCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAGAGAGCT 902  
Db 781 GTTGTGTTTGTGGATGCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAGAGAGCT 840  
Qy 903 GCGCCCTCTCATGATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGCT 962  
Db 841 GCGCCCTCTCATGATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGCT 900  
Qy 963 GAAAGATACCATACCAAGTACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTTTG 1022  
Db 901 GAAAGATACCATACCAAGTACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTTTG 960  
Qy 1023 AAGACAGCTCAGGGGACAAAAT 1046  
Db 961 AAGACAGCTCAGGGGACAAAAT 984

RESULT 6

US-10-790-396-29/c  
; Sequence 29, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: SIm, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 996  
; TTFS: DNA  
; ORGANISM: Felis catus  
US-10-790-396-29

Query Match 90.7%; Score 979.2; DB 19; Length 996;  
Best Local Similarity 99.7%; Pred. No. 1.1e-278;  
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 63 ATGGGCATTTGTGACAGACATATGGGACCTAGTTCACACTCTCTTGTGATGGCCCTCTCG 122  
Db 996 ATGGGCATTTGTGACAGACATATGGGACCTAGTTCACACTCTCTTGTGATGGCCCTCTCG 937  
Qy 123 CTCTCGTGTCTTCTTCATGAGAGATCAAGCATATTTTCAACAAGCTGGAGAACTGCGCA 182  
Db 936 CTCTCGTGTCTTCTTCATGAGAGATCAAGCATATTTTCAACAAGCTGGAGAACTGCGCA 877  
Qy 183 TGCCATTTTACAACTCTCTCAAAAATAGCCCTGGATGAGCTGGTATGATTTTGGCAGGAC 242  
Db 876 TGCCATTTTACAACTCTCTCAAAAATAGCCCTGGATGAGCTGGTATGATTTTGGCAGGAC 817  
Qy 243 CAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTCAT 302  
Db 816 CAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTCAT 757  
Qy 303 CTCAAATATAGAGGCTCTACAGCTTTGACAGGCAACCTGAGACCTCTGAGACTCCACAAT 362  
Db 756 CTCAAATATAGAGGCTCTACAGCTTTGACAGGCAACCTGAGACCTCTGAGACTCCACAAT 697  
Qy 363 GTTCAGATCAAGGCAAGGCGCACATCACTGTTTTCATTTATTAAGAGGCGCCCAAGGGA 422  
Db 696 GTTCAGATCAAGGCAAGGCGCACATCACTGTTTTCATTTATTAAGAGGCGCCCAAGGGA 637  
Qy 423 CTAGTTCCCATGACCAAAATGAGTTCAGACCTATCATGCTGCTTGTCTTAACCTCAGTCAACCT 482  
Db 636 CTAGTTCCCATGACCAAAATGAGTTCAGACCTATCATGCTGCTTGTCTTAACCTCAGTCAACCT 577  
Qy 483 GAAATAACAGTAACCTTCTAATAGAACAGAAAAATCTTGGCATCATATAATTTGACCTGCTCA 542  
Db 576 GAAATAACAGTAACCTTCTAATAGAACAGAAAAATCTTGGCATCATATAATTTGACCTGCTCA 517  
Qy 543 TCTATACAGGTATACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACATGAGATTCA 602  
Db 516 TCTATACAGGTATACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACATGAGATTCA 457  
Qy 603 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAAATATGATGACAGAACTGTACAAC 662  
Db 456 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAAATATGATGACAGAACTGTACAAC 397  
Qy 663 GTTCTCTATCAGCTTGCCTTTTTCAGTCCCTGAGACACAAATGTGAGCGCTCTTTGTGCC 722  
Db 396 GTTCTCTATCAGCTTGCCTTTTTCAGTCCCTGAGACACAAATGTGAGCGCTCTTTGTGCC 337  
Qy 723 CTGAACTGGAGACATCTGGAGATGCTGCTCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGCT 782  
Db 336 CTGAACTGGAGACATCTGGAGATGCTGCTCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGCT 277  
Qy 783 AAGGATAAAGACCTCTGAACCAAGGCCACTTCTCTGGATGCGGCTGTACTTGTAAATGTTT 842  
Db 276 AAGGATAAAGACCTCTGAACCAAGGCCACTTCTCTGGATGCGGCTGTACTTGTAAATGTTT 217  
Qy 843 GTTGTGTTTGTGGATGCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAGAGAGCT 902  
Db 216 GTTGTGTTTGTGGATGCTGCTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAGAGAGCT 157  
Qy 903 GCGCCCTCTCATGATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGCT 962  
Db 156 GCGCCCTCTCATGAAATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGCT 97  
Qy 963 GAAAGATACCATACCAAGTACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTTTG 1022  
Db 96 GAAAGATACCATACCAAGTACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTTTG 37  
Qy 1023 AAGACAGCTCAGGGGACAAAAT 1046  
Db 36 AAGACAGCTCAGGGGACAAAAT 13





Db	853	GTGAAACCAACAAAGTGGAGAGAAAAGAAAGTGGACGACACCGAGGAAAGGTACGGTACC	912
Qy	979	ACGTACTCTGAGAGATCTCTGATGAGACCCCACTGTGTTTAACTTTTGGAGACAGAGCTTCAGGGG	1038
Db	913	ATGAAACCGGAAAGATCTCTGATGAGACCCCACTGTGTTTAACTTTTGGAGACAGAGCTTCAGGGG	972
Qy	1039	ACAAAAT 1046	
Db	973	ACACAGT 980	

RESULT 10  
 US-10-790-396-8/C  
 / Sequence 8, Application US/10790396  
 / Publication No. US20040157296A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Sim, Gek-Kee  
 / APPLICANT: Yang, Shumin  
 / APPLICANT: Selline, Karen S.  
 / TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 / TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 / FILE REFERENCE: IM-1-C1-PCT  
 / CURRENT APPLICATION NUMBER: US/10790,396  
 / CURRENT FILING DATE: 2004-03-01  
 / PRIOR APPLICATION NUMBER: US/09/646,561  
 / PRIOR FILING DATE: 2008-09-19  
 / PRIOR APPLICATION NUMBER: 60/078,765  
 / PRIOR FILING DATE: 1998-03-19  
 / PRIOR APPLICATION NUMBER: 09/062,597  
 / PRIOR FILING DATE: 1998-04-17  
 / NUMBER OF SEQ ID NOS: 65  
 / SOFTWARE: PatentIn Ver. 2.0  
 / SEQ ID NO 8  
 / LENGTH: 1897  
 / TYPE: DNA  
 / ORGANISM: Canis familiaris  
 US-10-790-396-8

RESULT 11  
 US-10-790-396-19  
 ; Sequence 19, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 ; FILE REFERENCE: IM-1-C1-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396  
 ; CURRENT FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
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 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 19  
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 ; ORGANISM: Canis familiaris  
 US-10-790-396-19

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1339	Db	CAGAACCCAGAGAGATGTTATTTTGGTATATAAACCAGAAATTCAGTACTATAGTATGTATA	1340
619	QY	CTGTGATGAAGAAATCTCAAAAATAATATGTGACAGAACTGTAACAAGTTTCTATACAGCTTGC	678
1339	Db	CTGTGATGAAGAAATCTCAAAAATAATATGTACAGAACTCTACAAAGTTTCTATACAGCTTGT	1280
679	QY	CTTTTTCAGTCCCTGGAAGCACAAATGTGAGCGTCTTTTGTGSCCTCGAAACTCGAGACAC	738
1279	Db	CTTCTCAGTCCCTGGAAGCAAGCAATGTGAGCATCTTCTGTGTCCTCGCAACTTGTAGTCAA	1220
739	QY	TGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGACACACTTAAGGATAAAGACCCCTG	798
1219	Db	T---GAGAGTTCCTTCCCTACCTTTATATATAGATGCAACA---TACGAAACCCACCCCTG	1166
799	QY	AACAAGGCCACTTCTCTCGATTTGGCGCTGTACTTGTATAATGTTTGTGTTTTTGTGGGA	858
1165	Db	ATGAGAGACCAATCCTCTGATTTGGCGCTCTGCTTGTATAATGTTGTCAATTTTGTGTGGGA	1106
859	QY	TGCTGTCTTTTAAAAACACTTAAGGAAAAAGGAAAGACAGCCTGGGCCCCCTCTCATGAAT	918
1105	Db	TGGTGTCTTTCTTAAACACTTAAGGAAAAAGGAAAGACAGCCTGGGCCCCCTCTCATGAAT	1046
919	QY	GTGAAACCACTTAAGGGAAGAAAGAGAGCAACACACCAACGAAAGAGTACCATACC	978
1045	Db	GTGAAACCAACAAAGTGGAGAGAAAGAAAGATGACCAACCAAGGAAAGAGTACGGTACC	986
979	QY	ACGTACTCTGAGAGATCTGATGTGAAGCCAGTGTGTTMACATTTTGAAGACAGCCTCAGGGG	1038
985	Db	ATGAAACGGAAGAGATCTGATGAAGCCAGTGTGTAAATTTTCGAAGACAGCTTCAGGCG	926
1039	QY	ACAAAAAT	1046
925	Db	ACAACAGT	918

	Query Match	53.9%	Score 582.2	DB 19	Length 840
	Best Local Similarity	89.4%	Prod. NO. 3.1e-161		
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Qy	79	GCACATATGGGCACTGAGTCACATCTCTCTTTGTGATGGCCCTCTCGCTCTCTGGTGTTC	138		
Db	14	GCACATATGGAACTGAATPAACTCTCTTTGTGATGACCTCTCGCTCTATGGTCTGCTT	73		

QY 139 CCATGAGAGCTAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 198  
DB 74 CCATGAGAGCTAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 133  
QY 199 CTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258  
DB 134 CTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 193  
QY 259 TGTATGAGATTTTCAGAGGCAAGAGAACCTCCAAAATGTTTCATCTCAATATATAAGGCC 318  
DB 194 TGTACGAGCTATACAGAGGCAAGAGAACCTCCAAAATGTTTCATCTCGCAATATATAAGGCC 253  
QY 319 GTACAAGCTTTGACAAGGCAAACTGGACCTCGAGACTCCACAATGTTTCAGATCAAGGACA 378  
DB 254 GCACAAGCTTTGACAAGGCAAACTGGACCTCGAGACTCCACAATATATTCAGATCAAGGACA 313  
QY 379 AGGCGACATATCACTGTTTCATTTCAATATAAAGGCCCAAGAGGACTAGTTCCCATGCAAC 438  
DB 314 AGGCGCTGTATCAATGTTTCATTTCAATATAAAGGCCCAAGAGGACTAGTTCCCATGCAAC 373  
QY 439 AATGAGCTTCGACCTATCAGTCTGCTTAATCTTCAAGTCAACCTGAAATTAACAGTAACTT 498  
DB 374 AGATGAATTTTCGACCTATCAGTCTGCTTAATCTTCAAGTCAACCTGAAATTAATGTTAACTT 433  
QY 499 CTAAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCTCATCTATACAAGGTTACC 558  
DB 434 CTAAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCTCATCTATACAAGGTTACC 493  
QY 559 CAAACCTTAGGAGATGATTTTCAGCTTAACACATGAGAACTCAACTACTAAGTATGATA 618  
DB 494 CAAACCTTAGGAGATGATTTTCAGCTTAACACATGAGAACTCAACTACTAAGTATGATA 553  
QY 619 CTGTCAAGAGAAATCTCAAAAATATATGTCAGAGAACTGTACAGATTTCTATCAGCTTGC 678  
DB 554 CTGTCAAGAGAAATCTCAAAAATATATGTCAGAGAACTGTACAGATTTCTATCAGCTTGT 613  
QY 679 CTTTTTCAGTCCCTGGAAGCACAAATGTGAGAGCTCTTTTGTGCCCCGAACTTGAAGACAC 738  
DB 614 CTTTCTCAGTCCCTGGAAGCAAGCAATGTGAGAGCTCTTTTGTGCCCCGAACTTGAAGTCAA 673  
QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATATAGATGCAACCTAAGGATAAGA 793  
DB 674 T---GAAGCTTCCCTCCCTACCTTTATATATAGAAACCAACAAAGTGGAGAAA 725

## RESULT 12

US-10-790-396-20/c  
; Sequence 20, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kea  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 20  
; LENGTH: 840  
; TYPE: DNA  
; ORGANISM: Canis familiaris  
US-10-790-396-20

Query Match 53.9%; Score 582.2; DB 19; Length 840;

Best Local Similarity 89.4%; Pred. No. 3.le-161;  
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;  
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DB 847 GCATATGGAACTGAATAACATTTCTTTTGTGATGACCTCTCTCTCTCTGTTCTTT 768  
QY 139 CCATGAGAGCTCAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAACT 198  
DB 767 CCATGAGAGCTCAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAACT 708  
QY 199 CTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258  
DB 707 CTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 648  
QY 259 TGTATGAGATTTTCAGAGGCAAGAGAACCTCCAAAATGTTTCATCTCAATATATAAGGCC 318  
DB 647 TGTACGAGCTATACAGAGGCAAGAGAACCTCCAAAATGTTTCATCTCGCAATATATAAGGCC 588  
QY 319 GTACAAGCTTTGACAAGGCAAACTGGACCTCGAGACTCCACAATGTTTCAGATCAAGGACA 378  
DB 587 GCACAAGCTTTGACAAGGCAAACTGGACCTCGAGACTCCACAATATATTCAGATCAAGGACA 528  
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DB 287 CTGTCAAGAGAAATCTCAAAAATATATGTCAGAGAACTGTACAGATTTCTATCAGCTTGT 228  
QY 679 CTTTTTCAGTCCCTGGAAGCACAAATGTGAGAGCTCTTTTGTGCCCCGAACTGGAAGACAC 738  
DB 227 CTTTCTCAGTCCCTGGAAGCAAGCAATGTGAGAGCTCTTTTGTGCCCCGAACTGGAAGTCAA 168  
QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATATAGATGCAACCTAAGGATAAGA 793  
DB 167 T---GAAGCTTCCCTCCCTACCTTTATATATAGAAACCAACAAAGTGGAGAAA 116

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; Sequence 16, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kea  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0





; GENERAL INFORMATION: Daniel  
 ; APPLICANT: Soppet,  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

```

1  TITLE OF INVENTION:  Sete
2
3  FILE REFERENCE:  689290-75
4
5  CURRENT APPLICATION NUMBER:  US/09/962,436
6
7  CURRENT FILING DATE:  2001-09-25
8
9  PRIOR APPLICATION NUMBER:  US/60/235,082
10
11 PRIOR FILING DATE:  2000-09-25
12
13 PRIOR APPLICATION NUMBER:  US/60/234,924
14
15 PRIOR FILING DATE:  2000-09-25
16
17 NUMBER OF SEQ ID NOS:  568
18
19 SOFTWARE:  Patentin version 3.0
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21 SEQ ID NO 556
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23 LENGTH:  1424
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25 TYPE:  DNA
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27 ORGANISM:  Homo sapiens
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29 US-09-962-436-556

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Query Match 53.8%; Score 580.6; DB 9; Length 1424;  
Best Local Similarity 75.9%; Pred. No. 1.3e-160;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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Qy	58	AG	TGGATGGGCATTTGTGACACGACTATGGGACTGAGTCACTCTCTCTGTGTGATGGGCC	117
Db	122	AG	TGGACAGGCATTTGTGACAGCACTATGGGACTGAGTAACTTCTCTTTGTGTGGCCT	181
Qy	118	TC	TGCTCTCTGTGTGTTTCTCAATGAAGAGTCAAGCATATTTCAACAGACTCGAGAAC	177
Db	182	TC	TGCTCTCTGTGTGCTCTCTCTGAAGATTCAAGCTTATTTCAATGAGACTCGAGACC	241
Qy	178	TG	CATGCCCAATTTTCAAACTCTCCAAAACAATGAGCCTGSGATGAGCTGTGTAGTATTTTGGC	237
Db	242	TG	CATGCCCAATTTTCAAACTCTCCAAAACCAAGCCTGAGTGAGCTAGTAGTATTTTGGC	301
Qy	238	AG	ACACAGAGATTAAGCTGCTGTGTATGAGATATTCAGAGGCAAGAGAGACCTCCAAATG	297
Db	302	AG	ACACAGAGAAACTTGTGTCTGATGAGTATCTTAGGCAAGAGAAATTTGACATG	361
Qy	298	TT	CACTCTCAAAATATAAGGGCCGTTCAAGCTTTGACACAGGACAACTGGGACCCCTGACATCC	357
Db	362	TT	CACTCCAAATATAAGGGCCGCAAGTTTTGATTCGGAACAGTTGGGACCCCTGACATCC	421
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Db	422	ACA	ATCTTCAGATCAAGGACCAAGGGCTTGTATCAATGATATCTCATCATCAAAAAGCCCA	481
Qy	418	AAG	ACTAGTGTCCCATGCAACAAATAGTTTCTGACTATCAGTGGCTTGTCTAACTCAATC	477
Db	482	CAG	CAATGATTCGCATCCACAGATGAATTTCTGAACTGTCTGCTTGTCTTAATCTCACTC	541
Qy	478	AAC	CTGAAATATAACAGTAATCTTAATAGAACAGAAATTTCTGGCATCATATAAATTTGACCT	537
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Qy	598	ATT	CAACTACTAAGTATGATCTGTCTGAAGAATACTCAAAATTAATGTGACAGAACCTGT	657
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Qy	658	ACA	AGTTTCTATACAGCTGCTTTTTCAGTCCCTGAAG---CACCAATGTGAGGGTCT	714
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Listing first 45 summaries

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85: /cgn2\_6/ptodata/1/pna/US6016 COMB.seq.\*  
86: /cgn2\_6/ptodata/1/pna/US6017 COMB.seq.\*  
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88: /cgn2\_6/ptodata/1/pna/US6019 COMB.seq.\*  
89: /cgn2\_6/ptodata/1/pna/US6020 COMB.seq.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1080	100.0	1080	16	US-09-071-699-5
2	1080	100.0	1080	20	US-09-303-510-5
3	1080	100.0	1080	20	US-09-062-597A-25
4	1041.2	96.4	2830	16	US-09-062-597A-27
5	1041.2	96.4	2830	29	US-09-062-597A-25
6	1041.2	96.4	2830	29	US-09-062-597A-27
7	1041.2	96.4	2830	62	US-10-790-396-25
8	1041.2	96.4	2830	62	US-10-790-396-27
9	1041.2	96.4	2830	62	US-10-790-396-25
10	979.2	90.7	996	16	US-09-062-597A-28
11	979.2	90.7	996	16	US-09-062-597A-29
12	979.2	90.7	996	29	US-09-062-597A-28
13	979.2	90.7	996	29	US-09-062-597A-29
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29	772.8	71.6	1897	120	US-60-507-481-2850
30	612.4	56.7	994	37	US-09-868-605-13
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ALIGNMENTS

RESULT 1	
US-09-071-699-5	
; Sequence 5, Application US/09071699A	
; GENERAL INFORMATION:	
; APPLICANT: Collisison, Ellen W	
; APPLICANT: Hash, Stephen M.	
; APPLICANT: Insou, Choi	
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CTLA-4 Nucleic Acid	
; FILE OF INVENTION: And Polypeptides	
; FILE REFERENCE: 54954-A	
; CURRENT APPLICATION NUMBER: US/09/071,699A	
; CURRENT FILING DATE: 1998-05-01	
; NUMBER OF SEQ ID NOS: 55	
; SOFTWARE: PatentIn Ver. 2.0	
; SEQ ID NO 5	
; LENGTH: 1080	
; TYPE: DNA	
; ORGANISM: feline CD86	
; FEATURES:	
; NAME/KEY: CDS	
; LOCATION: (63)..(1052)	
US-09-071-699-5	
Query Match 100.0%; Score 1080; DB 16; Length 1080;	
Best Local Similarity 100.0%; Pred. No. 2.4e-298;	
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 GTTCTGTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGGTCTCTCGGAGCTGCAGT 60
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Qy	61 GGATGGGCATTTGTGACAGCCTATGGGACCTGAGTCACTCTCTTTGTGATGGCCCTCC 120
Db	61 GGATGGGCATTTGTGACAGCCTATGGGACCTGAGTCACTCTCTTTGTGATGGCCCTCC 120
Qy	121 TGCTCTCTGGTGTTCCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 180
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Qy	181 CATGCCATTTTCAAACTCTCAAAACATAAGCTTGAAGTCTGATAGTATTTTGGCAGG 240
Db	181 CATGCCATTTTCAAACTCTCAAAACATAAGCTTGAAGTCTGATAGTATTTTGGCAGG 240
Qy	241 ACCAGATTAAGCTGTTCTGTTATGAGATATTTCAAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Db	241 ACCAGATTAAGCTGTTCTGTTATGAGATATTTCAAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Qy	301 ATCTCAAAATATAGGCGCTTACAGCTTTTGACAGGCAAGTCAAGCTTGAAGCTCCACA 360
Db	301 ATCTCAAAATATAGGCGCTTACAGCTTTTGACAGGCAAGTCAAGCTTGAAGCTCCACA 360
Qy	361 ATGTTTCAGATCAAGGCAAGGCAAGTCAATATCTCTTTTCAATTAAGAGGCCCAAG 420
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Qy	421 GACTAGTTCCTTCCATGACCAATGAGTCTGACCTATCACTGCTTGTGCTTAACTTCAGTCAAC 480
Db	421 GACTAGTTCCTTCCATGACCAATGAGTCTGACCTATCACTGCTTGTGCTTAACTTCAGTCAAC 480
Qy	481 CTGAAATACAGTAACTTCTAATAGAACAGAAATTCGGCATCATAAATTTGACCTGCT 540
Db	481 CTGAAATACAGTAACTTCTAATAGAACAGAAATTCGGCATCATAAATTTGACCTGCT 540
Qy	541 CATCTATACAGGTTTACCCAGAACCTAAGAGATGTTATTTTTCAGCTTAAACACTGAGAAAT 600
Db	541 CATCTATACAGGTTTACCCAGAACCTAAGAGATGTTATTTTTCAGCTTAAACACTGAGAAAT 600
Qy	601 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTCAGAGAACTGTACA 660
Db	601 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTCAGAGAACTGTACA 660
Qy	661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAGGACACAAATGTGAGGCTCTTTTGTG 720

Db 661 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAGGACACATGTGAGCGCTTTTGTG 720  
 Qy 721 CCTGAAATCGAGACACTCGAGATGCTCTCCCTACCTTTCAATATAGATGCAAC 780  
 Db 721 CCTGAAATCGAGACACTCGAGATGCTCTCCCTACCTTTCAATATAGATGCAAC 780  
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 Qy 961 ACAGAGAGTACCATACCTGAGATCTGATGAAGCCAGTGTAAATTT 1020  
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 Qy 1021 TGAAGACAGCTCAGGAGCAAAATATCAGTAGAGAAATGTGGCTGTGCAAT 1080  
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RESULT 2

US-09-303-040-5  
 ; Sequence 5, Application US/09303040  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Winflow, Barbara J.  
 ; APPLICANT: Cochran, Mark D.  
 ; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
 ; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD28, Feline CTLA-4 or  
 ; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
 ; FILE REFERENCE: 54957-B  
 ; CURRENT APPLICATION NUMBER: US/09/303,040  
 ; CURRENT FILING DATE: 1999-04-30  
 ; PRIOR APPLICATION NUMBER: 60/083,870  
 ; PRIOR FILING DATE: 1998-05-01  
 ; NUMBER OF SEQ ID NOS: 82  
 ; SOFTWARE: Patent In Ver. 2.0  
 ; SEQ ID NO 5  
 ; LENGTH: 1080  
 ; TYPE: DNA  
 ; ORGANISM: feline CD86  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (63)..(1052)  
 US-09-303-040-5

Query Match 100.0%; Score 1080; DB 20; Length 1080;  
 Best Local Similarity 100.0%; Pred. No. 2.4e-298;  
 Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTTCTGTTTCTCGGATGTCTAGCTTATACATCTGCTCTGAGCTGCACT 60  
 Db 1 GTTCTGTTTCTCGGATGTCTAGCTTATACATCTGCTCTGAGCTGCACT 60  
 Qy 61 GGATGGGCAATTTGACAGACATATGGGACTGAGTCACTCTCTTGTGATGGCCCTCC 120  
 Db 61 GGATGGGCAATTTGACAGACATATGGGACTGAGTCACTCTCTTGTGATGGCCCTCC 120  
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Db 241 ACCAGGATAAGCTGGTCTGTATGATATTCAGAGGAGGAGAGAGAGAGAGAGAG 300  
 Qy 301 ATCTCAATATATAGGGCGGTACAGCTTTTGAAGGAGCAACTTGAACCTCTGAGATCTCACA 360  
 Db 301 ATCTCAATATATAGGGCGGTACAGCTTTTGAAGGAGCAACTTGAACCTCTGAGATCTCACA 360  
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 Db 361 ATGTTTCAGATCAGGAGCAAGGCGCATATCATCTTCAATATATAGGGCGGCAAG 420  
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 Db 421 GACTAGTTCCATGACCAAAATGAGTTCTGACTATCATCTTCAATATATAGTTCACTCAAC 480  
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 Db 481 CTGAAATAAAGTAACTTCTAATAGAAAGAGAAATTTCTGGCATCAATAATTTGACCTGCT 540  
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 Db 541 CATCTATCAAGGTTTACCCAGAACCTTAAGGAGATGTATTTTCACTAAACTGAGAAAT 600  
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 Db 601 CAACTACTAAGTATGATGCTCATGAAGAAATCTCAAAATTAATTTGAGAACTGTACA 660  
 Qy 661 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAGGACACAAATGTGAGCTCTTTTGTG 720  
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RESULT 3

US-09-303-510-5  
 ; Sequence 5, Application US/09303510A  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Collison, Ellen W.  
 ; APPLICANT: Hash, Stephen M.  
 ; APPLICANT: Choi, InSoo  
 ; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
 ; FILE REFERENCE: 54954  
 ; CURRENT APPLICATION NUMBER: US/09/303,510A  
 ; CURRENT FILING DATE: 1999-04-30  
 ; EARLIER FILING DATE: 1998-05-01  
 ; NUMBER OF SEQ ID NOS: 83  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 5

LENGTH: 1080  
TYPE: DNA  
ORGANISM: Feline  
US-09-303-510-5

Query Match 100.0%; Score 1080; DB 20; Length 1080;  
Best Local Similarity 100.0%; Pred. No. 2.4e-298;  
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCACT 60
QY 61 GGATGGGCATTTGTGACGACCTATGAGGAGTCACTCTCTCTGTGATGGCCCTCC 120
DB 61 GGATGGGCATTTGTGACGACCTATGAGGAGTCACTCTCTCTGTGATGGCCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 180
DB 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 180
QY 181 CATGCCATTTTACAAACTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTGGCAGG 240
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DB 301 ATCTCAATATAAGGCGGTACAAAGCTTTGACAGGACAACTGGACCTGAGACTCCACA 360
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DB 541 CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAAAT 600
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DB 661 ACGTTTCTATCAGCTGCTCTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTG 720
QY 721 CCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAAC 780
DB 721 CCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAAC 780
QY 781 CTAAGGATTAAGACCTCTGAAACAAAGGCCACTTCTCTGGAATTTGGGCTGTATCTGTAATGT 840
DB 781 CTAAGGATTAAGACCTCTGAAACAAAGGCCACTTCTCTGGAATTTGGGCTGTATCTGTAATGT 840
QY 841 TTGTTGTTTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAACGACG 900
DB 841 TTGTTGTTTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAACGACG 900
QY 901 CTGGCCCTCTCTATGAATGTGAAACCATCAAAAGGAGAGAAAGAGAGGAAACAGACCA 960
DB 901 CTGGCCCTCTCTATGAATGTGAAACCATCAAAAGGAGAGAAAGAGAGGAAACAGACCA 960
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## RESULT 4

US-09-062-597A-25

; Sequence 25, Application US/09062597A

; GENERAL INFORMATION:

; APPLICANT: Sim, Gek-Kee

; APPLICANT: Yang, Shumin

; APPLICANT: Sellins, Karen S.

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY

; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: 29

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carol Talkington Varner, Ph.D.

; ADDRESS: Haska Corporation

; STREET: 1825 Sharp Point Drive

; CITY: Fort Collins

; STATE: Colorado

; COUNTRY: USA

; ZIP: 80525

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: Windows 95

; SOFTWARE: WordPerfect for Windows, Version 7.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/062,597A

; FILING DATE: 17-APR-1998

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Varner, Carol Talkington

; REGISTRATION NUMBER: 37,459

; REFERENCE/DOCKET NUMBER: IM-1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 970/493-7272

; TELEFAX: 970/484-9505

; INFORMATION FOR SEQ ID NO: 25:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2830 nucleotides

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 179..1174

; US-09-062-597A-25

## Query Match

96.4%; Score 1041.2; DB 16; Length 2830;

Best Local Similarity 99.7%; Pred. No. 5.4e-287;

Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCACT 60
DB 117 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCACT 176
QY 61 GGATGGGCATTTGTGACGACCTATGAGGAGTCACTCTCTCTGTGATGGCCCTCC 120
DB 177 GGATGGGCATTTGTGACGACCTATGAGGAGTCACTCTCTCTGTGATGGCCCTCC 236
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 180
DB 237 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC 236
QY 181 CATGCCATTTTACAAACTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTGGCAGG 240
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Db 297 CATGCCATTTTACAAACTCTCAAAACATAAAGCCTGGATGAGTGTATGTTTGGCAGG 356
Qy 241 ACCGAGTAAGCTGGTCTCTGTATGAGATATTGAGAGGCAAGAGAACCTTCAAAATGTTT 300
Db 357 ACCGAGTAAGCTGGTCTCTGTATGAGATATTGAGAGGCAAGAGAACCTTCAAAATGTTT 416
Qy 301 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAACCTGGACCTGAGCTCCACA 360
Db 417 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAACCTGGACCTGAGCTCCACA 476
Qy 361 ATGTTTCAGATCAAGGCAACAGGCGCATATATCATCTGTTTCATTTATATAAGGCGCCAAAG 420
Db 477 ATGTTTCAGATCAAGGCAACAGGCGCATATATCATCTGTTTCATTTATATAAGGCGCCAAAG 536
Qy 421 GACTAGTTTCCCATGCAACCAAAATGAGTTCTGACCTATCAGTGTCTGTAACTTCAGTCAAC 480
Db 537 GACTAGTTTCCCATGCAACCAAAATGAGTTCTGACCTATCAGTGTCTGTAACTTCAGTCAAC 596
Qy 481 CTGAATATAAGGTAAGTCTCTAATAGAAAGAAATTTCTGGCATCATATAATTTGACCTGCT 540
Db 597 CTGAATATAAGGTAAGTCTCTAATAGAAAGAAATTTCTGGCATCATATAATTTGACCTGCT 656
Qy 541 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTTTTCAGCTTAAACACTGAGAAAT 600
Db 657 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTTTTCAGCTTAAACACTGAGAAAT 716
Qy 601 CAATCTACTAGTATGATGATCTCATGACGAAATCTCAAAATATATGTCACAGAACTGTACA 660
Db 717 CAATCTACTAGTATGATGATCTCATGACGAAATCTCAAAATATATGTCACAGAACTGTACA 776
Qy 661 AGCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCAACAATGTCAGGCGCTTTTGTG 720
Db 777 AGCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCAACAATGTCAGGCGCTTTTGTG 836
Qy 721 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAACAAC 780
Db 837 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAACAAC 896
Qy 781 CTAGGATTAAGACCTTGAACAGGCACTTCTCTGATTTGGGCTGACCTGTTAAATG 840
Db 897 CTAGGATTAAGACCTTGAACAGGCACTTCTCTGATTTGGGCTGACCTGTTAAATG 956
Qy 841 TTGTTGTTTTTGTGGATGCTGCTTTTAAACACTAAGGAAAGGAAGAGAGAGCAGC 900
Db 957 TTGTTGTTTTTGTGGATGCTGCTTTTAAACACTAAGGAAAGGAAGAGAGAGCAGC 1016
Qy 901 CTGCGCCCTCTCATGATGTAAGTGAACCTCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 960
Db 1017 CTGCGCCCTCTCATGATGTAAGTGAACCTCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 1076
Qy 961 AGGAAAGTACCAATACCACTGACCTGAGAGATCTGATGAAGCCAGCTGTTAAATTT 1020
Db 1077 AGGAAAGTACCAATACCACTGACCTGAGAGATCTGATGAAGCCAGCTGTTAAATTT 1136
Qy 1021 TGAAGACAGCCTCAGGCGGCAAAAAT 1046
Db 1137 TGAAGACAGCCTCAGGCGGCAAAAAT 1162
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## RESULT 5

US-09-062-597A-27/c

; Sequence 27, Application US/09062597A

; GENERAL INFORMATION:

; APPLICANT: Sim, Gek-kee

; APPLICANT: Yang, Shumin

; APPLICANT: Selline, Karen S.

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY

; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: 29

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carol Talkington Vereer, Ph.D.

```
/ ADDRESSEE: Heeka Corporation
/ STREET: 1925 Sharp Point Drive
/ CITY: Fort Collins
/ STATE: Colorado
/ COUNTRY: USA
/ ZIP: 80525
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: Windows 95
/ SOFTWARE: WordPerfect for Windows, Version 7.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/062,597A
/ FILING DATE: 17-APR-1998
/ CLASSIFICATION: 514
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Vereer, Carol Talkington
/ REGISTRATION NUMBER: 37,459
/ REFERENCE/DOCKET NUMBER: IM-1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 970/493-7272
/ TELEFAX: 970/484-9505
/ INFORMATION FOR SEQ ID NO: 27:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2830 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ US-09-062-597A-27
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Query Match 96.4%; Score 1041.2; DB 16; Length 2830;

Best Local Similarity 99.7%; Pred. No. 5.4e-287;

Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy 1 GTTCTCTGTGTTCTCTGGGAATGTCACCTGAGCTTATACATCTGTGCTCTGCGAGCTGCAGT 60
Db 2714 GTTCTCTGTGTTCTCTGGGAATGTCACCTGAGCTTATACATCTGTGCTCTGCGAGCTGCAGT 2655
Qy 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTGCACACTCTCTCTGTGTAGTCCCTCC 120
Db 2654 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTGCACACTCTCTCTGTGTAGTCCCTCC 2595
Qy 121 TGCTCTCTGTGTTTCTTCCATGAGAGTCAAGACATATTTCAACAAGACTGCGAACTGC 180
Db 2594 TGCTCTCTGTGTTTCTTCCATGAGAGTCAAGACATATTTCAACAAGACTGCGAACTGC 2535
Qy 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGCGATGCTGTGTAGTATTTTGGCAGG 240
Db 2534 CATGCCATTTTCAAACTCTCAAAACATAAGCTGCGATGCTGTGTAGTATTTTGGCAGG 2475
Qy 241 ACCAGGATAAGCTGGTCTGTATGAGATATTGAGAGGCAAGAGAACCTTCAAAATGTTT 300
Db 2474 ACCAGGATAAGCTGGTCTGTATGAGATATTGAGAGGCAAGAGAACCTTCAAAATGTTT 2415
Qy 301 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAACCTGGAACCTGAGACTCCACA 360
Db 2414 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAACCTGGAACCTGAGACTCCACA 2355
Qy 361 ATGTTTCAGATCAAGGCAAGGCGCAATATCATCTGTTTCATTTATATAAGGCGCCAAAG 420
Db 2354 ATGTTTCAGATCAAGGCAAGGCGCAATATCATCTGTTTCATTTATATAAGGCGCCAAAG 2295
Qy 421 GACTAGTTCCTCATGCAACCAAAATGAGTTCTGACCTATGAGTGTCTGTAACTTCAGTCAAC 480
Db 2294 GACTAGTTCCTCATGCAACCAAAATGAGTTCTGACCTATGAGTGTCTGTAACTTCAGTCAAC 2235
Qy 481 CTGAATATAAGTAACTTCTTAATAGAAAGAAATTTCTGGCATCATATAATTTGACCTGCT 540
Db 2234 CTGAATATAAGTAACTTCTTAATAGAAAGAAATTTCTGGCATCATATAATTTGACCTGCT 2175
Qy 541 CATCTATACAAGGTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTAACAACCTGAGAAAT 600
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: TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
:
: TITLE OF INVENTION: ACID MOLCULES, AND USES THEREOF
:
: FILE REFERENCE: IM-1-CI-PCT
:
: CURRENT APPLICATION NUMBER: US/09/646.561
:
: CURRENT FILING DATE: 2000-09-19
:
: PRIOR APPLICATION NUMBER: 60/078.765
:
: PRIOR FILING DATE: 1998-03-19
:
: PRIOR APPLICATION NUMBER: 09/062.597
:
: PRIOR FILING DATE: 1998-04-17
:
: NUMBER OF SEQ ID NOS: 65
:
: SOFTWARE: PatentIn Ver. 2.0
:
: SEQ ID NO 27
:
: LENGTH: 2830
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: TYPE: DNA
:
: ORGANISM: Felis catus
:
: US-09-646-561-27

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Query Match      96.4%; Score 1041.2; DB 29; Length 2830;
Best Local Similarity 99.7%; Pred. NO. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY	1	GT	TTCTGTGTGTTCTCTGGGAATGTCTCACTGAGCTTATACATCTGGTCTCTCGGAGCTGCAGT	60
Db	2714	GT	TTCTGTGTGTTCTCTGGGAATGTCACTGAGCTTATACATCTGGTCTCTCGGAGCTGCAGT	2655
QY	61	GG	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCCTCC	120
Db	2654	GG	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCCTCC	2595
QY	121	TG	CTCTCTGGTGTTCCTTCATGAAGAGTCAAGCATATTTCAAACAAGACTGAGAACTGC	180
Db	2594	TG	CTCTCTGGTGTTCCTTCATGAAGTCAAGCATATTTCAAAGACTGAGAACTGC	2535
QY	181	CA	TGCCAATTTTACAACCTCTCAAAACATAAGCTCTGATGAGCTGGTAGTATTTTGGCAGG	240
Db	2534	CA	TGCCAATTTTACAACCTCTCAAAACATAAGCTCTGATGAGCTGGTAGTATTTTGGCAGG	2475
QY	241	AC	CAGGATAAGCTGGTTCGTGTATGAGATATTCAGAGGCAAGAGAGACCCCTCAAAATGTTCT	300
Db	2474	AC	CAGGATAAGCTGGTTCGTGTATGAGATATTCAGAGGCAAGAGAGACCCCTCAAAATGTTCT	2415
QY	301	AT	CTCAAAATATAAGGGCCGTACAGCTTTTGACAAAGCAATGCGACCTCGAGCTCCACA	360
Db	2414	AT	CTCAAAATATAAGGGCCGTACAGCTTTTGACAAAGCAATGCGACCTCGAGCTCCACA	2355
QY	361	AT	GTTCAGATCAAGGACAAGGGCAATATCACTGTGTTCACTCATATPAAAGGGCCCAAG	420
Db	2354	AT	GTTCAGATCAAGGACAAGGGCAATATCACTGTGTTCACTCATATPAAAGGGCCCAAG	2295
QY	421	GAC	TAGTTCCTCCATGCAACCAATGAGTCTTGACCTATCAGTCTCTGCTAACTTCAGTCAAC	480
Db	2294	GAC	TAGTTCCTCCATGCAACCAATGAGTCTTGACCTATCAGTCTCTGCTAACTTCAGTCAAC	2335
QY	481	CT	GAAATACAGTAACCTCTTAATAGACAGAAATTTCTGGCATCATATAATTTGACCTGCT	540
Db	2234	CT	GAATACAGTAACCTCTTAATAGACAGAAATTTCTGGCATCATATAATTTGACCTGCT	2175
QY	541	CAT	CTATAACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGAATT	600
Db	2174	CAT	CTATAACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGAATT	2115
QY	601	CA	ACTACTAAGTATGATACTGTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA	660
Db	2114	CA	ACTACTAAGTATGATACTGTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA	2055
QY	661	AC	GTTCCTATCAGCTTGCCTTTTTCAGTCCCTGAAGACACATGTGAGGGCTTTTGTG	720
Db	2054	AC	GTTCCTATCAGCTTGCCTTTTTCAGTCCCTGAAGACACATGTGAGGGCTTTTGTG	1995
QY	721	CC	CTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAAC	780
Db	1994	CC	CTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAAC	1935

## RESULT 8

US-10-790-396-25

: Sequence 25. Application US/10790396

: SEQUENCE 23, APPLICATION:  
: GENERAL INFORMATION:

: GENERAL INFORMATION:  
: APPLICANT: Sim. Cok-Kee

; APPLICANT: SIM, Gek-kee  
: APPLICANT: YONG Shumin

APPLICANT: Yang, Shumin

APPLICANT: Sellins, Karen S.

**TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATOR**

**TITLE OF INVENTION: ACID M...**

FILE REFERENCE: IM-1-C1-PCT

; CURRENT APPLICATION NUMBER: US/1

**CURRENT FILING DATE: 2004-03-01**

PRIOR APPLICATION NUMBER: US/

PRIOR FILING DATE: 2000-09-19

! PRIOR FILING DATE: 2000-03-13  
! PRIOR APPLICATION NUMBER: 60/

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PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/

; PRIOR APPLICATION NUMBER:  
 : PRIOR FILING DATE: 1998-0

; PRIOR FILING DATE: 1998-04-  
 ; NUMBER OF SEQ. IN NOS.: 66

; NUMBER OF SEQ

; SOFTWARE: PAT

; SEQ ID NO 25

; LENGTH: 2830

; **TYPB: DNA**

**; ORGANISM: Fel**

**FEATURB:**

NAMB/KEY: CD:

Query Match 96.4%; Score 1041.2; DB 62; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1	GTTCCTGTGTTCTCTGGGAATGTCACCTGAGCTTATACATCTGCTCTCTGGGAGCTGCGAGT	60
117	GTTCCTGTGTTCTCTGGGAATGTCACCTGAGCTTATACATCTGCTCTCTGGGAGCTGCGAGT	176
61	GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTTGATGGCCCTCC	120
177	GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTTGATGGCCCTCC	236
121	TGCTCTCTGGTGTTCCTTCATGGAAGAGTCAAGCATATTTCAAACAAGACTGGAGAACTGC	180
237	TGCTCTCTGGTGTTCCTTCATGGAAGAGTCAAGCATATTTCAAACAAGACTGGAGAACTGC	296
181	CATGCGCATTTTACAACCTCTCAAAACATAGAAGCTGGATGAGCTGGTAGTATTTTGGCAGG	240
297	CATGCGCATTTTACAACCTCTCAAAACATAGAAGCTGGATGAGCTGGTAGTATTTTGGCAGG	356
241	ACACAGATTAAGCTGGTTCGTGTATGAGATATTCAGAGCAAGAGAGACCTCTCAAAATGTTTC	300
357	ACACAGATTAAGCTGGTTCGTGTATGAGATATTCAGAGCAAGAGAGACCTCTCAAAATGTTTC	416



301 ATCTCAATATAGGGCCGTACAGCTTTGACAAGGACAACTGGACCTGAGACTCCACA 360  
Db 417 ATCTCAATATAGGGCCGTACAGCTTTGACAAGGACAACTGGACCTGAGACTCCACA 476  
Qy 361 ATGTTGAGATCAAGGACCAAGGCGCATATCATCTGTTTCATTTATTAAGGGCCCAAG 420  
Db 477 ATGTTGAGATCAAGGACCAAGGCGCATATCATCTGTTTCATTTATTAAGGGCCCAAG 536  
Qy 421 GACTAGTCTCCATGACCAAAATGAGTTCTGACCTATCATGCTGCTGCTAACTTCACTCAAC 480  
Db 537 GACTAGTCTCCATGACCAAAATGAGTTCTGACCTATCATGCTGCTGCTAACTTCACTCAAC 596  
Qy 481 CTGAATAACAGTAAGCTTCTAATAGACAGAAATCTGGCATCATATAATTTGACTGCT 540  
Db 597 CTGAATAACAGTAAGCTTCTAATAGACAGAAATCTGGCATCATATAATTTGACTGCT 656  
Qy 541 CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTTATTTTCAGCTTAAACACCTGAATTT 600  
Db 657 CATCTATACAGGTTACCCAGAACCTTAAGGAGATGTTATTTTCAGCTTAAACACCTGAATTT 716  
Qy 601 CAACCTACTAAGTATGATCTGTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 660  
Db 717 CAACCTACTAAGTATGATCTGTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACA 776  
Qy 661 ACGTTTCTATCAGTTGCTCTTTTCAGTCCCTGAAGCAGACCAATGTGAGCGTCTTTG 720  
Db 777 ACGTTTCTATCAGCTTGCTCTTTTCAGTCCCTGAAGCAGACCAATGTGAGCGTCTTTG 836  
Qy 721 CCCTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTCACTTTCAATATAGATGACCAAC 780  
Db 837 CCCTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTCACTTTCAATATAGATGACCAAC 896  
Qy 781 CTAAGGATAAGACCCCTGAAGCCACTTCTCTGATTTGGGGCTGTACTTGTAAATGT 840  
Db 897 CTAAGGATAAGACCCCTGAAGCCACTTCTCTGATTTGGGGCTGTACTTGTAAATGT 956  
Qy 841 TTGTTGTTTTTGTGGAGTGCTCTTTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAG 900  
Db 957 TTGTTGTTTTTGTGGAGTGCTCTTTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAG 1016  
Qy 901 CTGCGCCCTCTCATGAAATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 960  
Db 1017 CTGCGCCCTCTCATGAAATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 1076  
Qy 961 ACGAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTTAAATTT 1020  
Db 1077 ACGAAGAGTACCATACCACTGAGAGATCTGATGAAGCCAGTGTGTTAAATTT 1136  
Qy 1021 TGAAGAGAGCTCTGGGAGCAAAAT 1046  
Db 1137 TGAAGAGAGCTCTGGGAGCAAAAGT 1162

RESULT 9  
US-10-790-396-27/c  
Sequence 27, Application US/10790396  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Ke  
APPLICANT: Yang, Shumin  
APPLICANT: Sellins, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
TITLE OF INVENTION: ACID MOLECULES, AND USBS THEREOF  
FILE REFERENCE: IM-1-C1-PC  
CURRENT APPLICATION NUMBER: US/10790,396  
CURRENT FILING DATE: 2004-03-01  
PRIOR APPLICATION NUMBER: US/09/646,561  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: 60/078,765  
PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/062,597  
PRIOR FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 27  
LENGTH: 2830  
TYPE: DNA  
ORGANISM: Felis catus  
US-10-790-396-27  
Query Match 96.4%; Score 1041.2; DB 62; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 1 GTTCTGTGTGTTCTCGGGAATGTCTACAGCTTATACATCTGTCTCTCGGAGCTGCACT 60  
Db 2714 GTTCTGTGTGTTCTCGGGAATGTCTACAGCTTATACATCTGTCTCTCGGAGCTGCACT 2655  
Qy 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGTGTGGCCCTCC 120  
Db 2654 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGTGTGGCCCTCC 2595  
Qy 121 TGTCTCTGTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGGAGCTGCG 180  
Db 2594 TGTCTCTGTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGGAGCTGCG 2535  
Qy 181 CATGCCAATTTTCAAACTCTCAAAACATAAGCTTGGATGAGCTGTGTAGTATTTTGCAGG 240  
Db 2534 CATGCCAATTTTCAAACTCTCAAAACATAAGCTTGGATGAGCTGTGTAGTATTTTGCAGG 2475  
Qy 241 ACCAGATAGCTGTTCTGTATGATATTTCAAGGCAAGAGAACCTTCAAAATGTTTC 300  
Db 2474 ACCAGATAGCTGTTCTGTATGATATTTCAAGGCAAGAGAACCTTCAAAATGTTTC 2415  
Qy 301 ATCTCAAAATAAAGGGCCGTACAGCTTTTGAAGGAGCAACTGGACCTCGAGACTCCACA 360  
Db 2414 ATCTCAAAATAAAGGGCCGTACAGCTTTTGAAGGAGCAACTGGACCTCGAGACTCCACA 2355  
Qy 361 ATGTTCAAGTCAAGGAGAGGAGGACATATCACTGTCTTTCATTTATTAAGGGCCCAAG 420  
Db 2354 ATGTTCAAGTCAAGGAGAGGAGGACATATCACTGTCTTTCATTTATTAAGGGCCCAAG 2295  
Qy 421 GACTAGTCTCCATGACCAAAATGAGTCTGACCTATCACTGCTGTCTGCTTAACTTCAAGTCAAC 480  
Db 2294 GACTAGTCTCCATGACCAAAATGAGTCTGACCTATCACTGCTGTCTGCTTAACTTCAAGTCAAC 2235  
Qy 481 CTGAATAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATTAATTTTGAAGCTGCT 540  
Db 2234 CTGAATAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATTAATTTTGAAGCTGCT 2175  
Qy 541 CATCTATAAGGTTTACCCAGAACCTTAAGGAGATGTTATTTTCAGCTTAAACACTGAGAAAT 600  
Db 2174 CATCTATAAGGTTTACCCAGAACCTTAAGGAGATGTTATTTTCAGCTTAAACACTGAGAAAT 2115  
Qy 601 CACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATTAATGTCAGAGACTGTACA 660  
Db 2114 CACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATTAATGTCAGAGACTGTACA 2055  
Qy 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTCGAGGAGGACACAAATGTGAGCGTCTTTG 720  
Db 2054 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTCGAGGAGGACACAAATGTGAGCGTCTTTG 1995  
Qy 721 CCCTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGAGAGCAAC 780  
Db 1994 CCCTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGAGAGCAAC 1935  
Qy 781 CTAAGGATAAAGACCCCTGAAGAGGCACTTCTCTGAGTTGCGGCTGTACTTGTAAATGT 840  
Db 1934 CTAAGGATAAAGACCCCTGAAGAGGCACTTCTCTGAGTTGCGGCTGTACTTGTAAATGT 1875  
Qy 841 TTGTTGTTTTTGTGGGATGTTGTTCTTTTAAACACTAAGGAAAGGAGAGAGAGAGAGAG 900  
Db 1874 TTGTTGTTTTTGTGGGATGTTGTTCTTTTAAACACTAAGGAAAGGAGAGAGAGAGAGAG 1815  
Qy 901 CTGCGCCCTCTCATGAAATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 960





CITY: Fort Collins  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80525  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: WordPerfect for Windows, Version 7.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/062,597A  
FILING DATE: 17-APR-1998  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Verser, Carol Talkington  
REGISTRATION NUMBER: 37,459  
REFERENCE/DOCKET NUMBER: IM-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 970/493-7272  
TELEFAX: 970/484-9505  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 996 nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
US-09-062-597A-29

Query Match 90.7%; Score 979.2; DB 16; Length 996;  
Best Local Similarity 99.7%; Pred. No. 2e-269;  
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	63	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTGCACACTCTCTGTGTGATGGCCCTCTG	122
DB	996	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTGCACACTCTCTGTGTGATGGCCCTCTG	937
QY	123	CTCTCTGGGTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGACTGGCA	182
DB	936	CTCTCTGGGTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGACTGGCA	877
QY	183	TGCCATTTTCAAAACTCTCAAAACATAGGCTGATGCTGTGTGTATTTTGGCAGAC	242
DB	876	TGCCATTTTCAAAACTCTCAAAACATAGGCTGATGCTGTGTATTTTGGCAGAC	817
QY	243	CAGATAGCTGGTCTGTATGAGATATTCAGGCAAGAGACCTCAAAATGTTTAT	302
DB	816	CAGATAGCTGGTCTGTATGAGATATTCAGGCAAGAGACCTCAAAATGTTTAT	757
QY	303	CTCAATATTAAGGGCGGTACAAAGCTTTGACAGGCAACTGGACCTTGAGACTCCCAAT	362
DB	756	CTCAATATTAAGGGCGGTACAAAGCTTTGACAGGCAACTGGACCTTGAGACTCCCAAT	697
QY	363	GTTCCAGATCAAGGCAAGGGCAATATCACTGTTTTCATTATTAAGGGCCCAAGGA	422
DB	696	GTTCCAGATCAAGGCAAGGGCAATATCACTGTTTTCATTATTAAGGGCCCAAGGA	637
QY	423	CTAGTTCCTCATGACCAATAGAGTTCTGACCTATCAGTGTCTTCACTTCACTAGTCAACT	482
DB	636	CTAGTTCCTCATGACCAATAGAGTTCTGACCTATCAGTGTCTTCACTTCACTAGTCAACT	577
QY	483	GAATTAACAGTAACTTCTAATAGAACAGAAATCTGGCATCAATAATTTGACCTGCTCA	542
DB	576	GAATTAACAGTAACTTCTAATAGAACAGAAATCTGGCATCAATAATTTGACCTGCTCA	517
QY	543	TCTATACAGGTTTACCCAGAACCTAAGGAGATGATTTTTCAGTCTTAACCTGAGATTC	602
DB	516	TCTATACAGGTTTACCCAGAACCTAAGGAGATGATTTTTCAGTCTTAACCTGAGATTC	457
QY	603	ACTACTAAGTATGATCTGTCTATGAGAGAAATCTCAAAATATGTCAGAGACTGTACAC	662
DB	456	ACTACTAAGTATGATCTGTCTATGAGAGAAATCTCAAAATATGTCAGAGACTGTACAC	397

QY	663	GTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAGCACAACATGTCAGCGTCTTTTGTGCC	722
DB	396	GTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAGCACAACATGTCAGCGTCTTTTGTGCC	337
QY	723	CTGAAACTGGAGACACTGGAGATGCTCTCTGCTTCTTCAATATAGATGACCAACCT	782
DB	336	CTGAAACTGGAGACACTGGAGATGCTCTCTGCTTCTTCAATATAGATGACCAACCT	277
QY	783	AAGGATTAAGACCTTGAAACAAGGCCACTTCTCTGAGTTGGCGTGTACTTGTAAATGTTT	842
DB	276	AAGGATTAAGACCTTGAAACAAGGCCACTTCTCTGAGTTGGCGTGTACTTGTAAATGTTT	217
QY	843	GTTCTTTTGTGGGATGCTCTTTTAAACACTTAAGGAAAGGAGAGAGAGAGAGAGCT	902
DB	216	GTTCTTTTGTGGGATGCTCTTTTAAACACTTAAGGAAAGGAGAGAGAGAGAGAGCT	157
QY	903	GGCCCTCTCATGAATGTGAACCACTCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG	962
DB	156	GGCCCTCTCATGAATGTGAACCACTCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG	97
QY	963	GAAAGAGTACCATACCACTGCTGAGAGATCTGATGAAGCCCACTGTGTAAACATTTTG	1022
DB	96	GAAAGAGTACCATACCACTGCTGAGAGATCTGATGAAGCCCACTGTGTAAACATTTTG	37
QY	1023	AAGACAGCTTCAGGAGCAAAAAT 1046	
DB	36	AAGACAGCTTCAGGAGCAAAAAT 13	

RESULT 12  
US-09-646-561-28  
Sequence 28, Application US/09646561  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Ke  
APPLICANT: Yang, Shumin  
APPLICANT: Sellins, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
FILE OF INVENTION: ACID MOLECULS, AND USES THEREOF  
FILE REFERENCE: IN-1-C1-PCT  
CURRENT APPLICATION NUMBER: US/09/646,561  
CURRENT FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: 60/078,765  
PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/062,597  
PRIOR FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 28  
LENGTH: 996  
TYPE: DNA  
ORGANISM: Felis catus  
US-09-646-561-28

Query Match 90.7%; Score 979.2; DB 29; Length 996;  
Best Local Similarity 99.7%; Pred. No. 2e-269;  
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	63	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTGCACACTCTCTGTGTGATGGCCCTCTG	122
DB	1	ATGGGCAATTTGTGACAGCACTATGGGACTGAGTGCACACTCTCTGTGTGATGGCCCTCTG	60
QY	123	CTCTCTGGTGTCTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCA	182
DB	61	CTCTCTGGTGTCTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCA	120
QY	183	TGCCATTTTACAACTCTCAAAACATAGGCTGATGCTGTGTGTAGTATTTTGGCAGGAC	242
DB	121	TGCCATTTTACAACTCTCAAAACATAGGCTGATGCTGTGTAGTATTTTGGCAGGAC	180
QY	243	CAGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACTTCAAAATGTTTCAAT	302
DB	181	CAGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACTTCAAAATGTTTCAAT	240



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Db      36 AAGACAGCCTCAGGCGACAAAAGT 13
|||||
RESULT 14
US-10-790-396-28
; Sequence 28, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kea
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IN-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-28

Query Match      90.7%; Score 979.2; DB 62; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      63 ATGGCATTGTGACAGCACTATGGGACTGATGTCACACTCTCTCTGTGTGAGCCCTCTCTG 122
DB      1  ATGGCATTGTGACAGCACTATGGGACTGATGTCACACTCTCTCTGTGTGAGCCCTCTCTG 60

QY      123 CTCTCTGTGTCTTCTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGCGCA 182
DB      61 CTCTCTGTGTCTTCTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGCGCA 120

QY      183 TGCATTTTACAACTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 242
DB      121 TGCATTTTACAACTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 180

QY      243 CAGGATAAGCTGGTCTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCA 302
DB      181 CAGGATAAGCTGGTCTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCA 240

QY      303 CTCAAATATAAGGCGGTACAGCTTTGACAGGCACTGGACCTGAGACTCCACAT 362
DB      241 CTCAAATATAAGGCGGTACAGCTTTGACAGGCACTGGACCTGAGACTCCACAT 300

QY      363 GTTCAGATCAAGGCAAGGCGCACATATCACTGTTTTCATTTATTAAGGCGCCAAAGGA 422
DB      301 GTTCAGATCAAGGCAAGGCGCACATATCACTGTTTTCATTTATTAAGGCGCCAAAGGA 360

QY      423 CTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTGTCTGCTTAACCTTCACTCAACT 482
DB      361 CTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTGTCTGCTTAACCTTCACTCAACT 420

QY      483 GAATTAACAGTAAGTCTTCTTAATAGACAGAAATTTCTGGCATCATTAATTTGACCTGCTCA 542
DB      421 GAATTAACAGTAAGTCTTCTTAATAGACAGAAATTTCTGGCATCATTAATTTGACCTGCTCA 480

QY      543 TCTATACAGGTTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTAAACACTGAGAAATCA 602
DB      481 TCTATACAGGTTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTAAACACTGAGAAATCA 540

QY      603 ACTACTAAGTATGATATCTGTCTGTAAGAAATCTCAAAATATATGTCAGAGAACTGTACAC 662
DB      541 ACTACTAAGTATGATATCTGTCTGTAAGAAATCTCAAAATATATGTCAGAGAACTGTACAC 600

US-10-790-396-29/c
; Sequence 29, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kea
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IN-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-29

Query Match      90.7%; Score 979.2; DB 62; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      63 ATGGCATTGTGACAGCACTATGGGACTGATGTCACACTCTCTCTGTGTGAGCCCTCTCTG 122
DB      996 ATGGCATTGTGACAGCACTATGGGACTGATGTCACACTCTCTCTGTGTGAGCCCTCTCTG 937

QY      123 CTCTCTGTGTCTTCTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGAGAGCA 182
DB      936 CTCTCTGTGTCTTCTCCATGAGAGTCAAGCATATTTCAACAGACTGAGAGCA 877

QY      183 TGCATTTTACAACTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 242
DB      876 TGCATTTTACAACTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 817

QY      243 CAGGATAAGCTGGTCTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCA 302
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Db      816 CAGGATAAGCTGGTTCGTATGATGATATTCAGAGGCAAGAGAACCCCTCAAAAATGTTTCAT 757
Qy      303 CTCAAATATNAGGCGCCGTACAAGCTTTTGA CAAAGGCAACTGGACCCCTGAGACTCCACAAT 362
Db      756 CTCAAATATNAGGCGCCGTACAAGCTTTTGA CAAAGGCAACTGGACCCCTGAGACTCCACAAT 697
Qy      363 GTTCAGATCAAGGCAAGGCGCAATATCACTGTCTTTCATTATTAAGGGCCCAAGGA 422
Db      696 GTTCAGATCAAGGCAAGGCGCAATATCACTGTCTTTCATTATTAAGGGCCCAAGGA 637
Qy      423 CTAGTTCCTCCATGACCAAAATGAGTTCCTGACCTATCACTGTCTTGTCTTAACTTCAGTCAACCT 482
Db      636 CTAGTTCCTCCATGACCAAAATGAGTTCCTGACCTATCACTGTCTTGTCTTAACTTCAGTCAACCT 577
Qy      483 GAAATACAGTAACTTCTAATAGAA CAGAAAATTCCTGGCATCAAAAATTTGAGCTGCTCA 542
Db      576 GAAATACAGTAACTTCTAATAGAA CAGAAAATTCCTGGCATCAAAAATTTGAGCTGCTCA 517
Qy      543 TCTATACAGGTTACCCAGAACCTTAGAGATGATATTTTCAGCTAAACACCTGAGAAATTC 602
Db      516 TCTATACAGGTTACCCAGAACCTTAGAGATGATATTTTCAGCTAAACACCTGAGAAATTC 457
Qy      603 ACTACTAAGTATGATATCTGTCAATGAAGAAATCTCAAAAATAATGTGACAGAACTGTACAAC 662
Db      456 ACTACTAAGTATGATATCTGTCAATGAAGAAATCTCAAAAATAATGTGACAGAACTGTACAAC 397
Qy      663 GTTTCCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGCTTTTGTGCC 722
Db      396 GTTTCCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGCTTTTGTGCC 337
Qy      723 CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAAATATAGATGCAAACT 782
Db      336 CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAAATATAGATGCAAACT 277
Qy      783 AAGGATAAAGACCTGAAACAGGCCACTTCTCTGGATTGGCGCTGTACTTGTAAATGTTT 842
Db      276 AAGGATAAAGACCTGAAACAGGCCACTTCTCTGGATTGGCGCTGTACTTGTAAATGTTT 217
Qy      843 GTTGTGTTTTTGTGGATGGTGTCTTTAAACACTTAAGGAAAGGAGAGAGAGAGCGCT 902
Db      216 GTTGTGTTTTTGTGGATGGTGTCTTTAAACACTTAAGGAAAGGAGAGAGAGAGCGCT 157
Qy      903 GGCCTCTCTATGAATGTGAACCATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 962
Db      156 GGCCTCTCTATGAATGTGAACCATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 97
Qy      963 GAAAGAGTACCATACCACTGAGATCTGATGAAGCCAGAGCTGTGTTAACTTTTG 1022
Db      96 GAAAGAGTACCATACCACTGAGATCTGATGAAGCCAGAGCTGTGTTAACTTTTG 37
Qy      1023 AADACGCTCAGGGGACAAAAT 1046
Db      36 AAGACGCTCAGGGGACAAAAT 13

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Search completed: August 20, 2005, 11:42:15  
 Job time : 18716 sec







QY 861 GTGTCCTTTAAACACATAAGAAAGAAAGAAAGAGCAGCCTGCGCCCTCTCATGAAT-- 918  
 Db 778 GTGTCCTTTGTAAACACATAAGAAAGAAAGAAAGAGCAGCCTGCGCCCTCTCATGAATGT 837  
 QY 919 -GTGAACCATCAAAAGCGAGAGAAAGAGAGCAAAACAGACCAACGAAAGAGTACCATAC 977  
 Db 838 GGTGAACCATCAAAATGACAGAGGCGAGTGACAACTTAGACAGAGCA----- 891  
 QY 978 CAGTACCTGAGAGATCTGATGAGCCCAAGTG---TGTTAACTTTTGAAGACAGCCTCA 1034  
 Db 892 GAAGTCCATGAACATCTGATGATGCCAGTGTGATGTTAATTTTAAAGACAGCCTCA 951  
 QY 1035 GGGGACAAAAT 1046  
 Db 952 GATGACAAAGT 963

RESULT 3  
 PCT-US05-00517-3531  
 ; Sequence 3531, Application PC/TUS0500517  
 ; GENERAL INFORMATION:  
 ; APPLICANT: THE OHIO STATE UNIVERSITY  
 ; TITLE OF INVENTION: METHODS OF USING DATABASES TO CREATE GENE-EXPRESSION MICROARRAYS,  
 ; FILE OF INVENTION: MICROARRAYS CREATED THEREBY, AND USES OF THE MICROARRAYS  
 ; FILE REFERENCE: 19525-04130  
 ; CURRENT APPLICATION NUMBER: PCT/US05/00517  
 ; PRIOR FILING DATE: 2005-01-07  
 ; PRIOR APPLICATION NUMBER: 60/535,111  
 ; PRIOR FILING DATE: 2004-01-08  
 ; NUMBER OF SEQ ID NOS: 3859  
 ; SOFTWARE: Patent in version 3.3  
 ; SEQ ID NO 3531  
 ; LENGTH: 1795  
 ; TYPE: DNA  
 ; ORGANISM: Canis familiaris  
 PCT-US05-00517-3531

Query Match 53.9%; Score 582.2; DB 1; Length 1795;  
 Best Local Similarity 89.4%; Pred. No. 6.7e-148;  
 Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;  
 QY 79 GCATATGGGAGTGAAGTCAACATCTCTTGTGATGGCCCTCTGCTCTGTGGTGTCTT 138  
 Db 20 GCATATGGGAGTGAAGTCAACATCTCTTGTGATGGCCCTCTGCTCTGTGGTGTCTT 79  
 QY 139 CCATGAAGTCAAGCATATTTCAACAGACTGGAGACTGCCATGCCATTTTACAACT 198  
 Db 80 CCATGAAGTCAAGCATATTTCAACAGACTGGAGACTGCCATGCCATTTTACAACT 139  
 QY 199 CTCAAAACATAGCTGGATGAGTGTGATATTTTGGCAGGACAGGATAGCTGGTTC 258  
 Db 140 CTCAAAACATAGCTGGATGAGTGTGATATTTTGGCAGGACAGGATAGCTGGTTC 199  
 QY 259 TGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTCATCTCMAATATAGGGCC 318  
 Db 200 TGTAGGACTATACAGGCAAGAGAACCTTCAAAATGTTTCATCTCMAATATAGGGCC 259  
 QY 319 GTACAGCTTTGACAGGCAAGACTGGACCTGAGACTCCCAATGTTTCAGATCAAGGACA 378  
 Db 260 GCACAGCTTTGACAGGCAAGACTGGACCTGAGACTCCCAATGTTTCAGATCAAGGACA 319  
 QY 379 AGGACACATATCACTGTGTTTCATTTATTAAGGGGCCCAAGGACTAGTTTCCCATGCACC 438  
 Db 320 AGGCTTTGTATCAATGTTTGTTCATTAAGGGGCCCAAGGACTAGTTTCCCATGCACC 379  
 QY 439 AAATGAGTCTGAGCTATGAGTGTGCTTCACTTCAGTCACTGGAATTAACGATTT 498  
 Db 380 AGATGAATTTGACCTATCAGTGTGCTTCACTTCAGTCACTGGAATTAACGATTT 439  
 QY 499 CTAAATAGAACAGAAAATTTGCGCATATAAAATTTGACCTGCTCATCTATCAAGGTTACC 558  
 Db 440 CTAAATAGAACAGAAAATTTGCGCATATAAAATTTGACCTGCTCATCTATCAAGGTTACC 499

QY 559 CAGAACCTTAAGAGATGTATTTTTCAGCTAAACACATGAGAAATTCAACTACTAAGTATGATA 618  
 Db 500 CAGAACCTTAAGAGATGTATTTTTCAGCTAAACACATGAGAAATTCAACTACTAAGTATGATA 559  
 QY 619 CTGTCATGAGAAATCTCAAAATTAATGTCAGAGAACTCTACAAAGTTCCTATCAGCTTGC 678  
 Db 560 CTGTCATGAGAAATCTCAAAATTAATGTCAGAGAACTCTACAAAGTTCCTATCAGCTTGT 619  
 QY 679 CTTTTTCAGTCCCTTGAAGCAACAATGTCAGGCTCTTTTGTGCCCTGAAACTGGAGACAC 738  
 Db 620 CTTTTTCAGTCCCTTGAAGCAACAATGTCAGGCTCTTTTGTGCCCTGAAACTGGAGTCAA 679  
 QY 739 TGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCAACACCTTAAGGATTAAGA 793  
 Db 680 T---GAAGTTCCTCTCCCTACCTTTTCAATATAGATGCAACACCTTAAGGATTAAGA 731

RESULT 4  
 US-11-027-053-3  
 ; Sequence 3, Application US/11027053  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Newell, Martha K.  
 ; TITLE OF INVENTION: METABOLIC INTERACTIONS IN DISEASE  
 ; FILE REFERENCE: V0139/7028/HK  
 ; CURRENT APPLICATION NUMBER: US/11/027,053  
 ; PRIOR FILING DATE: 2004-12-30  
 ; PRIOR APPLICATION NUMBER: US/09/277,575  
 ; PRIOR FILING DATE: 1999-03-26  
 ; PRIOR APPLICATION NUMBER: U.S. 60/082,250  
 ; PRIOR FILING DATE: 1998-04-17  
 ; PRIOR APPLICATION NUMBER: U.S. 60/094,519  
 ; PRIOR FILING DATE: 1998-07-29  
 ; PRIOR APPLICATION NUMBER: U.S. 60/101,580  
 ; PRIOR FILING DATE: 1998-09-24  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FastSeq for Windows version 3.0  
 ; SEQ ID NO 3  
 ; LENGTH: 1424  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 US-11-027-053-3

Query Match 53.8%; Score 580.6; DB 20; Length 1424;  
 Best Local Similarity 75.9%; Pred. No. 1.7e-147;  
 Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;  
 QY 1 GTTTCGTGTTCTCTCGGGAATGTCTAGCTTATACATCTGCTCTCTG---GGAGCTGC 57  
 Db 62 GTTTCGTGTTCTCTCGGGAATGTCTAGCTTATACATCTGCTCTCTCTTTTGGAGCTAC 131  
 QY 58 AGTGGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCC 117  
 Db 122 AGTGGACAGCAATTTGTGACAGCACTATGGGACTGAGTAACTCTCTTTGTGATGGCCT 181  
 QY 118 TCCTGCTCTCGGAGTCTTCTTCATGAGAGCTCAAGCATATTTCAACAGACTGGAGAAC 177  
 Db 182 TCCTGCTCTCTGCTGCTCTCTCTGAGAGTTCAGCTTATTTCTATGAGACTGACACC 241  
 QY 178 TGCATGCCATTTTCAAACTCTCAAAAATAAGCTGGATGAGCTGGTAGTATTTTGGC 237  
 Db 242 TGCATGCCATTTTCAAACTCTCAAAAATAAGCTGGATGAGCTGGTAGTATTTTGGC 301  
 QY 238 AGGACAGGATAGCTGGTGTCTGATGATATTTTCAAGGCAAGAGAACCTTCAAAATG 297  
 Db 302 AGGACAGGATAGCTGGTGTCTGATGATATTTTCAAGGCAAGAGAACCTTCAAAATG 361  
 QY 298 TGCATCTCAATATATAGGCGCGTCAAGCTTTGACAGGCACTGAGACTGAGACTCC 357  
 Db 362 TGCATCTCAATATATAGGCGCGTCAAGCTTTGAGTTCGACAGCTGAGACTTTC 421  
 QY 358 ACAATGTTCAAGTCAAGGCAAGGCGCATATCACTGTTTCAATTTATTAAGGGGCCCA 417

Db 422 ACAATCTTCAGATCAAGGACAGGGCTGTGTATCAATGTATCATCCATCACAAAAAGCCCA 481  
QY 418 AAGAGTCTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAGTCTCTGCTAACTTCAGTTC 477  
Db 482 CAGGAATGATTGCGATCCACCAAGATGAATTCCTGAATCTGCTGCTTAACTTCAGTTC 541  
QY 478 AACTGGAATTAACAGTAACTCTTAATAGAACAGAAATTCCTGGCATCATTAATTTCACTT 537  
Db 542 AACTGGAATTAACAGTAACTCTTAATAGAACAGAAATTCCTGGCATCATTAATTTCACTT 598  
QY 538 GCTCATCTATACAAAGGTTACCCAGAACTTAAGAGATGTATTTTCAGCTAAACACATGAGA 597  
Db 599 GCTCATCTATACAAAGGTTACCCAGAACTTAAGAGATGTATTTTCAGCTAAACACATGAGA 658  
QY 598 ATTCACCTACTTAAGTATGATGCTCATGAGAAATCTCAAAATTAATAGTACAGAACTCT 657  
Db 659 ATTCACCTACTTAAGTATGATGCTCATGAGAAATCTCAAAATTAATAGTACAGAACTCT 718  
QY 658 ACAGGTTCTTATCAGCTTCTCTTTTTCAGTCCCTGAAG---CACAAATGTGAGCGTCT 714  
Db 719 ACAGGTTCTTATCAGCTTCTCTTTTTCAGTCCCTGAAG---CACAAATGTGAGCGTCT 778  
QY 715 TTTGTGCCCTGAAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGT 774  
Db 833 ---AGCTTGAAGGACCTTCAGCTTCCCTGAGTATGAGTATGAGTATGAGTATGAGTATGAGT 889  
QY 835 TAATGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 894  
Db 890 CAACAGTTATATATGTTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 949  
QY 895 AGCAGCTGCGCCCTCTCATGATGTGAACCATCAAAAGGGGAGAGAAAGAGAGAGAAAC 954  
Db 950 AGCAGCTGCGCCCTCTCATGATGTGAACCATCAAAAGGGGAGAGAAAGAGAGAGAAAC 1009  
QY 955 AGCAGCTGCGCCCTCTCATGATGTGAACCATCAAAAGGGGAGAGAAAGAGAGAGAAAC 1011  
Db 1010 AGCAGCTGCGCCCTCTCATGATGTGAACCATCAAAAGGGGAGAGAAAGAGAGAGAAAC 1069  
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAAAATCA 1048  
Db 1070 TTAAGGTTGGAAGACATCTTTCATGCGACAAAAGTGA 1106

## RESULT 5

US-10-940-774A-5261  
Sequence 5261, Application US/10940774A  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CLO01307  
CURRENT APPLICATION NUMBER: US/10/940,774A  
PRIOR FILING DATE: 2004-09-15  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5261  
LENGTH: 1600  
TYPE: DNA  
ORGANISM: Human  
US-10-940-774A-5261  
Query Match 53.8%; Score 580.6; DB 14; Length 1600;  
Best Local Similarity 75.9%; Pred. No. 1.8e-147;



1 SEQ ID NO 33  
2 LENGTH: 2717  
3 TYPE: DNA  
4 ORGANISM: Homo sapiens  
5 US-11-041-164A-33

Query Match 53.8%; Score 580.6; DB 23; Length 2717;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

```
QY 1 GTTTCGTGTTCTCGGAAATCTCACTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCGTGTTCTCGGAAATCTCGTGTGCTTATGCACTCTGGTCTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCCATTCTGACAGCACTATGGGAGCTGAGTCACACTCTCTCTGTGATGGGCC 117
DB 122 AGTGGACGAGCAATTTGACAGCACTATGGGAGCTGAGTCACACTCTCTCTGTGATGGGCC 181
QY 118 TCCGTCTCTGCTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 182 TCCGTCTCTGCTGCTGCTCTCTGAAATTCAGCTTATTTCAATGAGACTGGAGAAC 241
QY 178 TGCCATGCCATTTTACAACTCTCAAAACATAAGCCTGGATGAGCTGAGTATTTGGC 237
DB 242 TGCCATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGAGTATTTGGC 301
QY 242 TGCCATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGAGTATTTGGC 301
DB 238 AGGACGAGGATAGCTGCTCTGATGAGATATTTCAAGGCAAAAGAGAAATTTGACAGTG 297
QY 302 AGGACGAGGATAGCTGCTCTGATGAGATATTTCAAGGCAAAAGAGAAATTTGACAGTG 361
DB 298 TTCACTCTCAATATGAAGGCGCTTGAAGCTTTGA CAAGCAAACTGGACCTGAGACTCC 357
QY 358 ACAATGTTCAAGTCAAGGCAAAAGGCAAACTGATGCTGCTTCAATATTAAGGAGCCCA 417
DB 422 ACAATGTTCAAGTCAAGGCAAAAGGCAAACTGATGCTGCTTCAATATTAAGGAGCCCA 481
QY 418 AAGGACGAGGATAGCTGCTCTGATGAGATATTTCAAGGCAAAAGAGAAATTTGACAGTG 477
DB 482 CAGGATGATTTGCAATCCAGAGTGAATTTCTGAGACTGCTGAGTCTGAGTCTGAGTCT 541
QY 478 AACCTGAAATTAACAGTAACCTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACT 537
DB 542 AACCTGAAATTAACAGTAACCTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACT 598
QY 538 GCTCATCTATCAAGGTTTACCAGAACCTTAAGGAGATGATTTTCAAGTCAAACTGAGA 597
DB 599 GCTCATCTATCAAGGTTTACCAGAACCTTAAGGAGATGATTTTCAAGTCAAACTGAGA 658
QY 598 ATTCAACTACTAAGTATGATGATGTCATGAAGAAATCTCAAAATTAATGTCAGAACTGT 657
DB 659 ATTCAACTACTAAGTATGATGATGTCATGAAGAAATCTCAAAATTAATGTCAGAACTGT 718
QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAG---CACACATGTCAGCTCT 714
DB 719 ACAGGTTTCCATCAGCTTGCCTTTTTCAGTCCCTGAG---CACACATGTCAGCTCT 778
QY 715 TTTGTCCTTGAACCTGGAGACTGGAGATGCTCTCTCCCTACTCTTCAATATGATG 774
DB 779 TCTGTATTTCTGGAACCTGACA---AGACGGGCTTTTATCTTCACTCTCTCTATAG--- 832
QY 775 CACACCTAAGGATTAAGGACCTTGAACCAAGGCACTTCTCTGATTTGGCGCTGATCTTG 834
DB 833 ---AGCTTGAAGGACCTTGAACCAAGGCACTTCTCTGATTTGGCGCTGATCTTTC 889
QY 835 TAATGTTTGTGTTTGTGGGATGGTGTCTTTTAAACACTTAAGGAAAGGAGAGAGA 894
DB 890 CACAGTATATATGTCGTATGTTTCTGTCATTTCTATGGAATGGAAGAGAGAGA 949
QY 895 AGCAGCTGCGCCCTCTCATGATGATGTAACCATCAAAAGGAGAGAAAGAGAGCAAC 954
DB 950 AGCGGCTCGCAACTCTTATTAATGTCGAACCAACAAATGGAGAGGAGAGAGTGAAC 1009
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QY 955 AGACCAACGAAGAGTACCATACACAGTACCTGAGAGATCTGATGAAGCCACGCTGTC--- 1011
DB 1010 AGACCAACGAAGAGTACCATACATACCTGAAAGATCTGATGAAGCCACGCTGTTT 1069
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAAAATCA 1048
DB 1070 TTAACATTTTGAAGACATCTTCTGCGCAAAAGTGA 1106
```

## RESULT 8

```
PCT-US05-18533-16
GENERAL INFORMATION:
APPLICANT: The Trustees of the University of Pennsylvania
APPLICANT: Riley, James
APPLICANT: Juns, Carl
APPLICANT: Vonderheide, Robert
APPLICANT: Aquil, Nicole
APPLICANT: Suhoski, Megan
FILE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR
CURRENT APPLICATION NUMBER: PCT/US05/18533
CURRENT FILING DATE: 2005-06-03
PRIOR APPLICATION NUMBER: US 60/575,712
PRIOR FILING DATE: 2004-05-27
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn version 3.3
SEQ ID NO 16
LENGTH: 2794
TYPE: DNA
ORGANISM: Homo sapiens
PCT-US05-18533-16
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Query Match 53.8%; Score 580.6; DB 1; Length 2794;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

```
QY 1 GTTTCGTGTTCTCGGAAATCTCACTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCGTGTTCTCGGAAATCTCGTGTGCTTATGCACTCTGGTCTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCCATTCTGACAGCACTATGGGAGCTGAGTCACACTCTCTCTGTGATGGGCC 117
DB 122 AGTGGACGAGCAATTTGACAGCACTATGGGAGCTGAGTAACTCTCTCTTTGATGGCT 181
QY 118 TCCGTCTCTGCTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 192 TCCGTCTCTGCTGCTGCTCTCTGAAATTCAGCTTATTTCAATGAGACTGCGAGCC 241
QY 178 TGCCATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGATGATTTGGC 237
DB 242 TGCCATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGATGATTTGGC 301
QY 238 AGGACGAGGATAGCTGCTTCTGATGAGATATTTCAAGGCAAAAGAGAAATTTGACAGTG 297
DB 302 AGGACGAGGATAGCTGCTTCTGATGAGATATTTCAAGGCAAAAGAGAAATTTGACAGTG 361
QY 298 TTCACTCTCAATATGAAGGCGCTTGAAGCTTTGA CAAGCAAACTGGACCTGAGACTCC 357
DB 362 TTCACTCTCAAGTATATGAGGCGCCGCAAGTCTTCTGAGACTGCTGAGTCTGAGACTTC 421
QY 358 ACAATGTTCAAGTCAAGGCAAAAGGCAAACTGATGCTGCTTCAATATTAAGGAGCCCA 417
DB 422 ACAATGTTCAAGTCAAGGCAAAAGGCAAACTGATGCTGCTTCAATATTAAGGAGCCCA 481
QY 418 AAGGACGAGGATAGCTGCTCTGATGAGATATTTCAAGGCAAAAGAGAAATTTGACAGTG 477
DB 482 CAGGATGATTTGCAATCCAGAGTGAATTTCTGAGACTGCTGAGTCTGAGTCTGAGTCT 541
QY 478 AACCTGAAATTAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACT 537
DB 542 AACCTGAAATTAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACT 598
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QY 538 GCTCATCTATACAGGTTACCCAGAACCTTAAGAGATGATTTTTCAGCTAAACACTGAGA 597  
 DB |||||  
 QY 599 GCTCATCTATACAGGTTACCCAGAACCTTAAGAGATGATTTTTCAGCTAAACACTGAGA 658  
 DB |||||  
 QY 598 ATTCAACTACTTAAGTATGATCTGTCATGAGAAATCTCAAAATAATGTCAGCAAGACTGT 657  
 DB |||||  
 QY 659 ATTCAACTATCGATGATGATGATTAATGTCAGAAATCTCAGATTAATGTCAGCAAGACTGT 718  
 DB |||||  
 QY 658 ACAAGCTTCTATCAGCTGCTCTTTTTCAGTCCCTGGAAG---CACAAATGTCAGGCTGT 714  
 DB |||||  
 QY 719 ACGAGCTTCTATCAGCTGCTCTTTTTCAGTCCCTGGAAG---CACAAATGTCAGGCTGT 778  
 DB |||||  
 QY 715 TTTTGCCCTGAACTGGAGACACTGGAGATGCTGCTCTCCTACCTTTTCAATATAGATG 774  
 DB |||||  
 QY 779 TCTGTATCTGGAACCTGACA---AGAGCGGCTTTTATCTTTCACCTTTCTCTATAG--- 832  
 DB |||||  
 QY 775 CACAACTTAAGGATTAAGACCTTGAACAGGCTTCTCTGAGATGCGGCTGACTGTG 834  
 DB |||||  
 QY 833 ---AGCTTGAGGACCTCAGCTTCCCTCAGACCAATCTCTTGATTTACAGCTGTACTTC 889  
 DB |||||  
 QY 835 TAATGTTGTGTTTTTGTGGATGCTGCTTTTAAACACTAAGGAAAGGAAAGAA 894  
 DB |||||  
 QY 890 CAACAGTTATATATATGATGATGCTGCTTTTCTGTCTAAATCTATGGAATGGAAGAAAGA 949  
 DB |||||  
 QY 895 AGCAGCTGCGCCCTCTCATGAATGGAACCATCAAAAGGAGAGAGAGAGAGCAAC 954  
 DB |||||  
 QY 950 AGCGCTTCTGCAACTCTTATTAATGTTGGAACCAACACATGGAAGAGAGAGAGTGAAC 1009  
 DB |||||  
 QY 955 AGACCAACGAAAGAGTACCATACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011  
 DB |||||  
 QY 1010 AGACCAAGAAAGAGAAATCTCAATACCTGGAAGATCTGATGAAGCCAGTGTG 1069  
 DB |||||  
 QY 1012 TTAACATTTTGAAGACAGCTCTAGGGGAGCAAAATCA 1048  
 DB |||||  
 QY 1070 TTAAGGTTTGAAGACATCTTCTATGCGCAAAAGTGA 1106  
 DB |||||

## RESULT 9

PCT-US05-18790-54  
 ; Sequence 54, Application PC/TUS0518790  
 ; GENERAL INFORMATION:  
 ; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
 ; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
 ; FILE OF INVENTION: BY MODULATION OF TNP-ALPHA ACTIVITY  
 ; FILE REFERENCE: HUI-0559C  
 ; CURRENT APPLICATION NUMBER: PCT/US05/18790  
 ; CURRENT FILING DATE: 2005-06-06  
 ; PRIOR FILING DATE: 2004-05-28  
 ; NUMBER OF SEQ ID NOS: 99  
 ; SOFTWARE: PatentIn 3.3  
 ; SEQ ID NO 54  
 ; LENGTH: 2794  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 PCT-US05-18790-54

Query Match 53.8%; Score 580.6; DB 1; Length 2794;  
 Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
 Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCGGAAATGTCACCTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57  
 DB |||||  
 QY 58 AGTGGAGGGCATTTGTGACAGCACTATGGGACTGAGTCACATCTCTTGTGATGGGCC 117  
 DB |||||  
 QY 122 AGTGGACAGGCATTTGTGACAGCACTATGGGACTGAGTAAATCTCTTGTGATGGGCT 181  
 DB |||||  
 QY 118 TCCTGCTCTCTGTTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAAC 177  
 DB |||||  
 QY 182 TCCTGCTCTCTGTTGTTCTTCCATGAAGAGTCAAGCATATTTCAATGAGACTGGAGAAC 241  
 DB |||||

## RESULT 10

US-11-137-807-16  
 ; Sequence 16, Application US/11137807  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Riley, James  
 ; APPLICANT: June, Carl  
 ; APPLICANT: Vonderheide, Robert  
 ; APPLICANT: Aquil, Nicole  
 ; APPLICANT: Suhoski, Megan  
 ; TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR  
 ; FILE REFERENCE: 053893-5054US1

QY 178 TGCCATGCCAATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGTTAGTATTTTGGC 237  
 DB |||||  
 QY 242 TGCCATGCCAATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGTTAGTATTTTGGC 301  
 DB |||||  
 QY 238 AGGACCAAGGATAAGCTGGTTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTCCATTAATG 297  
 DB |||||  
 QY 302 AGGACCAAGGATAAGCTGGTTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTCCATTAATG 361  
 DB |||||  
 QY 298 TTCACTCAAAATATAAGGCGCGTACAGCTTTGACAGGACAACTGAGACCTGAGACTCC 357  
 DB |||||  
 QY 362 TTCACTCCAAATATAAGGCGCGTACAGCTTTGAGATTCGAGACAGTTGGACCTCGAGACTTC 421  
 DB |||||  
 QY 358 ACAATGTTGAGATCAAGGCAAGGCGCACATATCACTGTTTCAATTCATTAATAAGGGGCCA 417  
 DB |||||  
 QY 422 ACAATCTCAGATCAAGGCAAGGCGCTGTATCAATGTATCATCATCACAAAAGGCCA 481  
 DB |||||  
 QY 418 AAGCACTAGTTCCCATGCAACCAATGAGTTCTGACCTATGAGTCTGCTTAACCTTCACTG 477  
 DB |||||  
 QY 482 CAGGAATGATTCGATCCACCCAGATGAATTTCTGAACGTGTGAGTCTGCTTAACCTTCACTG 541  
 DB |||||  
 QY 478 AACCTGAAATPAAACAGTAACCTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537  
 DB |||||  
 QY 542 AACCTGAAATPAAACAGTAACCTTCTTAATATAACAGAAAT---TGTGTACATAAATTTGACCT 598  
 DB |||||  
 QY 538 GCTCATCTATACAGGTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGA 597  
 DB |||||  
 QY 599 GCTCATCTATACAGGTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGA 658  
 DB |||||  
 QY 598 ATTCAACTACTTAAGTATGATCTGTCATGAGAAATCTCAAAATAATGTCAGCAAGACTGT 657  
 DB |||||  
 QY 659 ATTCAACTACTTAAGTATGATCTGTCATGAGAAATCTCAAAATAATGTCAGCAAGACTGT 718  
 DB |||||  
 QY 658 ACAAGCTTCTATCAGCTGCTCTTTTTCAGTCCCTGGAAG---CACAAATGTCAGGCTGT 714  
 DB |||||  
 QY 719 ACGAGCTTCTATCAGCTGCTCTTTTTCAGTCCCTGGAAG---CACAAATGTCAGGCTGT 778  
 DB |||||  
 QY 715 TTTTGCCCTGAACTGGAGACACTGGAGATGCTGCTCTCCTACCTTTTCAATATAGATG 774  
 DB |||||  
 QY 779 TCTGTATCTGGAACCTGACA---AGAGCGGCTTTTATCTTTCACCTTTCTCTATAG--- 832  
 DB |||||  
 QY 775 CACAACTTAAGGATAAGACCTTGAACAGGCTTCTCTGAGATGCGGCTGACTGTG 834  
 DB |||||  
 QY 833 ---AGCTTGAGGACCTCAGCTTCCCTCAGACCAATCTCTTGATTTACAGCTGTACTTC 889  
 DB |||||  
 QY 835 TAATGTTGTGTTTTTGTGGATGCTGCTTTTAAACACTAAGGAAAGGAAAGAA 894  
 DB |||||  
 QY 890 CAACAGTTATATATATGATGATGCTGCTTTTCTGTCTAAATCTATGGAATGGAAGAAAGA 949  
 DB |||||  
 QY 895 AGCAGCTGCGCCCTCTCATGAATGGAACCATCAAAAGGAGAGAGAGAGAGCAAC 954  
 DB |||||  
 QY 950 AGCGCTTCTGCAACTCTTATTAATGTTGGAACCAACACATGGAAGAGAGAGTGAAC 1009  
 DB |||||  
 QY 955 AGACCAACGAAAGAGTACCATACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011  
 DB |||||  
 QY 1010 AGACCAAGAAAGAGAAATCTCAATACCTGGAAGATCTGATGAAGCCAGTGTG 1069  
 DB |||||  
 QY 1012 TTAACATTTTGAAGACAGCTCTAGGGGAGCAAAATCA 1048  
 DB |||||  
 QY 1070 TTAAGGTTTGAAGACATCTTCTATGCGCAAAAGTGA 1106  
 DB |||||

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; CURRENT APPLICATION NUMBER: US/11/137,807
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/575,712
; PRIOR FILING DATE: 2004-05-27
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 16
; LENGTH: 2794
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-137-807-16

Query Match      53.8%; Score 580.6; DB 23; Length 2794;
Best Local Similarity 75.9%; Pred. No. 2.1e-147;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTTCGTGTTCTCTGGGAATGTCAGTCACTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCGTGTTCTCTGGGAATGTCGTGCTTATGCACTCTGGTCTCTTTTGGAGTAC 121

QY 58 AGTGGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTTGTGATGGCC 117
DB 122 AGTGGACAGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTTGTGATGGCCT 181

QY 118 TCCTGCTCTCTGGTGTCTCTCCATGAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 182 TCCTGCTCTCTGGTGTCTCTCTGAGATTCAGCTTATTTTCAATGAGACTGGAGAAC 241

QY 178 TGCCATGCAATTTTACAACTCTCAAAACATTAAGCTGGATGAGCTGGTATTTTGGC 237
DB 242 TGCCATGCAATTTTACAACTCTCAAAACATTAAGCTGGATGAGCTGGTATTTTGGC 301

QY 238 AGGACCAAGTAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACTTCAAAATG 297
DB 302 AGGACCAAGTAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACTTCAAAATG 361

QY 298 TTCACTCTCAATATTAAGGCGCTTACAGCTTTTGACAGCACTGGCCCTGAGACTCC 357
DB 362 TTCACTCTCAATATTAAGGCGCTTACAGCTTTTGACAGCACTGGCCCTGAGACTTC 421

QY 368 ACAATGTTTCAGATCAGGACCAAGGCGACATATCACTGTTTCATTCATATTAAGGCGCCA 417
DB 422 ACAATGTTTCAGATCAGGACCAAGGCGCTTGTATCAATGATCATCATCAACAAAGGCCCA 481

QY 418 AAGACTAGTTTCCATGCAACCAATGAGTCTGACTATCACTGCTCTGCTTAACTTCAGTC 477
DB 482 CAGGAATGATTCGATCCACCAAGATGATTTCTGAACTGTGCACTGCTTGAATTCAGTC 541

QY 478 AACCTGAAATACAGTAATCTCTTAATAGACAGAAATTTCTGGCATCATATAATTTGACCT 537
DB 542 AACCTGAAATAGTACCAATTTCTTAATATTAACAGAAATTTCTGATCAATTAATTTGACCT 598

QY 538 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGAGATGATATTTTCAGCTTAACACTGAGA 597
DB 599 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGAGATGAGTGTGTTGCTTAAGAACCAAGA 658

QY 598 ATTCAACTACTAGTATGATCTGTCATGAAGAAATCTCAAAATTAATGTCACAGAACTGT 657
DB 659 ATTCAACTACTAGTATGATCTGTCATGAAGAAATCTCAAGATTAATGTCACAGAACTGT 718

QY 658 ACAAGTTTCTATCAGCTTCTCTTTTTCAGTCCCTGAG---CACACATGAGAGGCTCT 714
DB 719 ACAAGTTTCTATCAGCTTCTCTTTTTCAGTCCCTGAGTTTACAGCAATATGACCACTCT 778

QY 715 TTTTGGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATATAGATG 774
DB 779 TCTGTATTTCTGAAACTGAC---AGACGCGGCTTTTATCTTCACTCTCTCTATAG--- 832

QY 775 CACAACTTAAGGATAAAGACCTTGACAGAGGCCACTTCTCTGATTTGGGCTGTTACTTG 834
DB 833 ---AGCTTGAAGACCTCAGCTTCCCTCCAGACCAATTCCTTGAATTTAGCTGTACTTC 889

QY 835 TAATGTTTGTGTTTGTGAGATGGTGTCTCTTTTAAACACACTAAGGAAAGAGAGAGA 894
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RESULT 11
US-10-302-689A-57885
; Sequence 57885, Application US/10302689A
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Asundi, Vinod
; APPLICANT: Ballinger, Dennis
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; APPLICANT: Loeb, Deborah
; APPLICANT: Montgomery, Julia, R.
; APPLICANT: Pace, Ann M.
; APPLICANT: Sheridan, James P.
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 502CIP
; CURRENT APPLICATION NUMBER: US/10/302,689A
; PRIOR FILING DATE: 2002-11-22
; PRIOR APPLICATION NUMBER: 10/273,573
; PRIOR FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: 10/084,643
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/989,660
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 10/014,487
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: 09/952,981
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/905,059
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/898,888
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/919,002
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 158931
; SOFTWARE: Pf SEQ_genes Version 1.0
; SEQ ID NO 57885
; LENGTH: 1830
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-302-689A-57885
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Query Match      49.4%; Score 533.2; DB 9; Length 1830;
Best Local Similarity 75.3%; Pred. No. 1.6e-134;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

QY 79 GCATATGGAGCTGAGTACATCTCTCTTGTGATGGCCCTCTCTCTCTCTCTCTCTCT 138
DB 120 GCATATGGAGCTGAGTACATCTCTCTTGTGATGGCCCTCTCTCTCTCTCTCTCTCT 179

QY 139 CCATGAAGAGTCAAGCATATTTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAACT 198
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Db	958	ANTGTGGAACCAACAATGGAGAGGGAAGAGCTGACAGACCAAGAAACAGAGAAAA	1017
Qy	976	ACACGTACTGAGAGATCTGATGAGGCGGAGTGTG---TTAACAATTTGAGACAGGCT	1032
Db	1018	TCCATATACCTGAAAGATCTGATGAGGCGGAGTGTGTTTAAAGATTGAAAGACTCTT	1077
Qy	1033	CAGGGGACAAAAATCA	1048
Db	1078	CATCGGACAAAAGTGA	1093
RESULT 13			
US-11-170-797-2			
; Sequence 2, Application US/11170797			
; GENERAL INFORMATION:			
; APPLICANT: Lechler, Robert			
; APPLICANT: Rogers, Nichola			
; APPLICANT: Dotling, Anthony			
; APPLICANT: ML Laboratories PLC			
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A XENOGRAFT			
; FILE REFERENCE: 5585-59112-02			
; CURRENT APPLICATION NUMBER: US/11/170,797			
; PRIOR FILING DATE: 2005-06-28			
; PRIOR APPLICATION NUMBER: US 09/868,605			
; PRIOR FILING DATE: 2001-06-19			
; PRIOR APPLICATION NUMBER: PCT/GB99/04200			
; PRIOR FILING DATE: 1999-12-17			
; PRIOR APPLICATION NUMBER: 9827921.9			
; PRIOR FILING DATE: 1998-12-19			
; PRIOR APPLICATION NUMBER: 9925015.1			
; PRIOR FILING DATE: 1999-10-23			
; NUMBER OF SEQ ID NOS: 39			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 3			
; LENGTH: 972			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-11-170-797-2			
Query Match 48.9%; Score 528.2; DB 23; Length 972;			
Best Local Similarity 75.2%; Pred. NO. 3e-133;			
Matches 730; Conservative 0; Mismatches 223; Indels 18; Gaps 5;			
Qy	84	ATGGAGCTGACTACACTCTCTTGTGATGGCCCTCCCTGCTCTCTGCTGTTCTTCCATG	143
Db	1	ATGGAGCTGAGTAACATCTCTTGTGATGGCCCTCCCTGCTCTCTGCTGTTCTTCCATG	60
Qy	144	AAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTCAAACTCTCAA	203
Db	61	AAGATTCAGCTTATTTCAATGAGACTGCAGACCTGCCATGCCATTTTCAAACTCTCAA	120
Qy	204	AACAATACCTCGATGAGCTGGTAGTATTTTGGCAGGACCCAGGATAAGCTGGTCTGTAT	263
Db	121	NACCAAGCCTGAGTGAAGCTAGTATTTTGGCAGGACCCAGGATAAGCTGGTCTGTAT	180
Qy	264	GAGATTTCAAGCAAGGAGAACCTCAAAATGTTTCATCTCAATATATAGGCGCTGACA	323
Db	181	GAGTATTAATTTAGGCAAGGAGAAATTTGACAGTGTTCATTCAGATATATAGGCGCTGACA	240
Qy	324	AGCTTTGACAGGACAACTGGACCTGAGACTTCCCAATGTTTCAGATCAAGGAGGCGC	383
Db	241	AGTTTGTGATTCGACAGTGGAGCCCTGAGACTTCCCAATTTTCAGATCAAGGAGGCGC	300
Qy	384	ACATATCACTGTTTCATTTAATTAAGGCGCCCAAGGAGCTAGTTCCTCATGCCACCAATG	443
Db	301	TTGTATCAATGTATCATCCATCAAAAAGCCCAAGGAGTATTCATGCCACCAAGATG	360
Qy	444	AGTTCTGACCTATCGAGCTGCTGCTTCACTTCACTGAGTCAAGTAAAGTAACTTCTAAT	503
Db	361	AAATCTGACCTGTCAGTGTCTGCTTCACTTCACTGAGTCAAGTAAAGTAACTTCTAAT	420
Qy	504	AGAAACAGAAAAATTTCTGGCATCATAAATTTGACCTGCTCATCTATACAGAGTTACCCAGAA	563

RESULT 14  
US-10-960-855-17  
; Sequence 17, Application US/10960855  
; GENERAL INFORMATION:  
; APPLICANT: ALBANI, SALVATORE  
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION  
; FILE REFERENCE: AND-1001-CP2  
; CURRENT APPLICATION NUMBER: US/10/960,855  
; CURRENT FILING DATE: 2004-10-06  
; PRIOR APPLICATION NUMBER: 60/510,645  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: 09/756,983  
; PRIOR FILING DATE: 2001-01-09  
; PRIOR APPLICATION NUMBER: 09/421,506  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: PCT/US99/2466  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/105,018  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 17  
; LENGTH: 1056  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: fusion construct with human and bacterial  
; OTHER INFORMATION: sequences  
US-10-960-855-17  
Query Match 39.8%; Score 429.6; DB 12; Length 1056;  
Best Local Similarity 79.3%; Pred. NO. 2.5e-106;



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:49:39 ; Search time 23 seconds  
(without alignments)  
1067.806 Million cell updates/sec

Title: US-09-303-510-6  
Sequence: 1 MGICDSTMGSLHTLLVMALL.....RSDAQCWILKTASGDKNQ 329

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pdp.\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pdp.\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pdp.\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pdp.\*  
5: /cgn2\_6/ptodata/1/1aa/PTUS.COMB.pdp.\*  
6: /cgn2\_6/ptodata/1/1aa/backfiles.pdp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1737	100.0	329	4	US-09-651-200-18
2	1737	100.0	329	4	US-09-303-040-6
3	1372	79.0	329	4	US-09-651-200-19
4	1157	66.6	325	4	US-09-651-200-20
5	932	53.7	372	4	US-09-949-016-11132
6	903	52.0	329	2	US-08-456-104-2
7	903	52.0	329	2	US-08-101-624-2
8	903	52.0	329	3	US-08-479-744A-2
9	903	52.0	329	3	US-08-280-757B-2
10	903	52.0	329	3	US-08-205-697A-23
11	903	52.0	329	3	US-08-702-525-23
12	903	52.0	329	3	US-08-403-253A-4
13	903	52.0	329	4	US-08-435-816A-4
14	903	52.0	329	4	US-09-425-762-2
15	903	52.0	329	4	US-09-837-867A-23
16	903	52.0	329	4	US-09-206-132-2
17	903	52.0	329	4	US-09-441-411-26
18	903	52.0	329	4	US-09-425-516-2
19	903	52.0	329	5	PCT-US95-02576-23
20	900	51.8	329	4	US-09-667-135-32
21	898	51.7	323	4	US-09-651-200-21
22	898	51.7	323	4	US-09-441-411-22
23	898	51.7	323	5	PCT-US94-09642-2
24	894.5	51.5	324	4	US-09-910-174B-6
25	894.5	51.5	324	4	US-09-620-461-6
26	746.5	43.0	351	4	US-09-756-983-18
27	682.5	39.3	218	4	US-09-451-291-12

ALIGNMENTS

RESULT 1

US-09-651-200-18  
; Sequence 18, Application US/09651200  
; Patent No. 6429303  
; GENERAL INFORMATION:  
; APPLICANT: Green et al  
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
; FILE OF INVENTION: Polypeptides Encoded Thereby  
; FILE REFERENCE: 15966-562 (CURA-62)  
; CURRENT APPLICATION NUMBER: US/09/651,200  
; PRIOR FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152383  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/172909  
; PRIOR FILING DATE: 1999-12-21  
; PRIOR APPLICATION NUMBER: 60/183578  
; PRIOR FILING DATE: 2000-02-18  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-09-651-200-18

Query Match 100.0%, Score 1737, DB 4; Length 329;  
Best Local Similarity 100.0%, Pred. No. 2.5e+168;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHPTNSQNSISLDELVFWQD 60  
DB 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHPTNSQNSISLDELVFWQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKNTLRLHNVQIKDKTYHCFHYKPKG 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKNTLRLHNVQIKDKTYHCFHYKPKG 120  
QY 121 LVPKHQMSDLSVLANFSPQPIITVTSNRTENSQIINLTCSIIQGYPEPKEMYFQNTENS 180  
DB 121 LVPKHQMSDLSVLANFSPQPIITVTSNRTENSQIINLTCSIIQGYPEPKEMYFQNTENS 180  
QY 181 TTKYDTVMKSKQNNVTELYNVSISLPPSVPAHNVSVFCALKELEMLSLPNDADP 240  
DB 181 TTKYDTVMKSKQNNVTELYNVSISLPPSVPAHNVSVFCALKELEMLSLPNDADP 240  
QY 241 KKDQPEQGHPMTAAVLVNVFVFCGVSKFKTLRKKKKQKQPGPSHECTIIRKRKSKQTN 300  
DB 241 KKDQPEQGHPMTAAVLVNVFVFCGVSKFKTLRKKKKQKQPGPSHECTIIRKRKSKQTN 300

get to 18 did in to patent  
NOT issued in to patent  
NOT issued in to patent  
NOT issued in to patent

OY 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329  
Db 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329

## RESULT 2

US-09-303-040-6  
; Sequence 6, Application US/09303040  
; Patent No. 655671

## GENERAL INFORMATION:

; APPLICANT: Winlow, Barbara J.  
; APPLICANT: Cochran, Mark D.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Peline CD86, Peline CD86, Peline CD28, Peline CTLA-4 or  
; TITLE OF INVENTION: Peline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,870  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86

## US-09-303-040-6

Query Match 100.0%; Score 1737; DB 4; Length 329;  
Best Local Similarity 100.0%; Pred. No. 2.5e-168;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MGICDSTMGLSHTLLVWALLSGVSSMSQAYFNKTGELPCHFTNSQISLDELVVFQD 60  
Db 1 MGICDSTMGLSHTLLVWALLSGVSSMSQAYFNKTGELPCHFTNSQISLDELVVFQD 60  
OY 61 ODKLVYIIRGKENPQNVHLKYGRTSPDKDNTLRLHNVQIKDGTTCFHYKGP 120  
Db 61 ODKLVYIIRGKENPQNVHLKYGRTSPDKDNTLRLHNVQIKDGTTCFHYKGP 120

OY 121 LVPWHQSSDLVLANFSPQETVTSNRTENSGIINLTCSIOQYPEPKMYFQNTENS 180  
Db 121 LVPWHQSSDLVLANFSPQETVTSNRTENSGIINLTCSIOQYPEPKMYFQNTENS 180  
OY 181 TTKYDVTWKSSQNNVTLYNVISLPSFVPSVPAHNVSVFCALKLETLEMLSLPENIDAP 240  
Db 181 TTKYDVTWKSSQNNVTLYNVISLPSFVPSVPAHNVSVFCALKLETLEMLSLPENIDAP 240  
OY 241 KDKPEQGHFLWIAAFLVMPVFCGVSPKTLRKRKKQPGPSHECETIKRERKSKQTN 300  
Db 241 KDKPEQGHFLWIAAFLVMPVFCGVSPKTLRKRKKQPGPSHECETIKRERKSKQTN 300

OY 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329  
Db 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329

## RESULT 3

US-09-651-200-19  
; Sequence 19, Application US/09651200  
; Patent No. 6429303

## GENERAL INFORMATION:

; APPLICANT: Green et al  
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
; TITLE OF INVENTION: Polypeptides Encoded Thereby  
; FILE REFERENCE: 15966-562 (CURA-62)  
; CURRENT APPLICATION NUMBER: US/09/651,200  
; CURRENT FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152383  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/172909  
; PRIOR FILING DATE: 1999-12-21

; PRIOR APPLICATION NUMBER: 60/183578  
; PRIOR FILING DATE: 2000-02-18  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 19  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Canis familiaris  
US-09-651-200-19

Query Match 79.0%; Score 1372; DB 4; Length 329;  
Best Local Similarity 81.7%; Pred. No. 3.7e-131;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

OY 7 TWGLSHTLLVWALLSGVSSMSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKVL 66  
Db 6 TWGLSHTLLVWALLSGVSSMSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKVL 66  
OY 67 YEIPRGKENPQNVHLKYGRTSPDKDNTLRLHNVQIKDGTTCFHYKGPGLVPMHQ 126  
Db 66 YELRGKENPQNVHLKYGRTSPDKDNTLRLHNVQIKDGTTCFHYKGPGLVPMHQ 126  
OY 127 MSSDLSVLANFSPQETVTSNRTENSGIINLTCSIOQYPEPKMYFQNTENSTTKYDT 186  
Db 126 MSSDLSVLANFSPQETVTSNRTENSGIINLTCSIOQYPEPKMYFQNTENSTTKYDT 186  
OY 187 VMKSSQNNVTLYNVISLPSFVPSVPAHNVSVFCALKLETLEMLSLPENIDAPKOKDPE 246  
Db 186 VMKSSQNNVTLYNVISLPSFVPSVPAHNVSVFCALKLETLEMLSLPENIDAPKOKDPE 246  
OY 247 QGHFLWIAAFLVMPVFCGVSPKTLRKRKKQPGPSHECETIKRERKSKQTNERPVTYH 306  
Db 244 GDHILWIAAFLVMPVFCGVSPKTLRKRKKQPGPSHECETIKRERKSKQTNERPVTYH 303  
OY 307 VPERSDEAQCWNILKTASGDKN 328  
Db 304 ETERSDEAQCWNILKTASGDKN 325

## RESULT 4

US-09-651-200-20  
; Sequence 20, Application US/09651200  
; Patent No. 6429303

## GENERAL INFORMATION:

; APPLICANT: Green et al  
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
; TITLE OF INVENTION: Polypeptides Encoded Thereby  
; FILE REFERENCE: 15966-562 (CURA-62)  
; CURRENT APPLICATION NUMBER: US/09/651,200  
; CURRENT FILING DATE: 2000-08-30  
; PRIOR APPLICATION NUMBER: 60/152383  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 60/172909  
; PRIOR FILING DATE: 1999-12-21  
; PRIOR APPLICATION NUMBER: 60/183578  
; PRIOR FILING DATE: 2000-02-18  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 20  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: sus sp.

## US-09-651-200-20

Query Match 66.6%; Score 1157; DB 4; Length 325;  
Best Local Similarity 70.1%; Pred. No. 2.9e-109;  
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

OY 8 MGLSHTLLVWALLSGVSSMSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKVL 67  
Db 1 MGLSHTLLVWALLSGVSSMSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKVL 60

QY 68 EIPRGENPONVHLKYKGRTSFQKONWTLRLHNVQIKDGYTHCFIHYKPKGLVPMHQ 127  
 DB 61 ELYRQEKPHNVSKYMGRTSPQATWTLRLHNVQIKDGYTHCFIHYKPKGLVPMHQ 120  
 QY 128 SSDLSVLNFSQPEITVTSNRTEGSIINLTCSISQGYPEPKMYFOLNTENSTTKYDTV 187  
 DB 121 SSDLSVLNFSQPEITVTSNRTEGSIINLTCSISQGYPEPKMYFOLNTENSTTKYDTV 179  
 QY 188 MKSQNNVTLNYSISLPSVBAHNSVFCALKLEMLL-SLPPNDAQPKDQPE 246  
 DB 180 MKSQNNVTLNYSISLPSVBAHNSVFCALKLEMLL-SLPPNDAQPKDQPE 239  
 QY 247 QGHFLWIAAVALVMPVFCGMSFKTLRKKQPGPSHEC-ETIKRERKESKOTNERVPY 305  
 DB 240 PDHILWIAAVALVMPVFCGMSFKTLRKKQPGPSHEC-ETIKRERKESKOTNERVPY 299  
 QY 306 HYPERSDEAOC-VNLIKTAGSDKN 328  
 DB 300 H-ERSDQAQCDVNLIKTAGSDNS 321

RESULT 5

US-09-949-016-11132  
 ; Sequence 11132, Application US/09949016  
 ; Patent No. 6812339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; FILE REFERENCE: C0001307  
 ; CURRENT APPLICATION NUMBER: US/09/949,016  
 ; CURRENT FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/241,755  
 ; PRIOR FILING DATE: 2000-10-20  
 ; PRIOR APPLICATION NUMBER: 60/237,768  
 ; PRIOR FILING DATE: 2000-10-03  
 ; PRIOR APPLICATION NUMBER: 60/231,498  
 ; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 11132  
 ; LENGTH: 372  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-949-016-11132

Query Match 53.78; Score 932; DB 4; Length 372;  
 Best Local Similarity 59.19; Pred. No. 2.9e-86;  
 Matches 195; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 2 GICDSTGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVPMQDQ 61  
 DB 44 GICDSTGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVPMQDQ 103  
 QY 62 DKVLVEIFRGENPONVHLKYKGRTSFQKONWTLRLHNVQIKDGYTHCFIHYKPKGL 121  
 DB 104 ENVLNVEYLKKEKPSVHVKYMGRTSPDSQSWTLRLHNVQIKDGYTHCFIHYKPKGL 163  
 QY 122 VPMQMSDLSVLNFSQPEITVTSNRTEGSIINLTCSISQGYPEPKMYFOLNTENST 181  
 DB 164 TRIHOMNSLSVLNFSQPEITVTSNRTEGSIINLTCSISQGYPEPKMYFOLNTENST 222  
 QY 182 KYDTVMKSKQNNVTLNYSISLPSVBAHNSVFCALKLEMLL-SLPPNDAQPKDQPE 240  
 DB 223 IRYDGMQSKQNNVTLNYSISLPSVBAHNSVFCALKLEMLL-SLPPNDAQPKDQPE 280  
 QY 241 KDKPEQGHFLWIAAVALVMPVFCGMSFKTLRKKQPGPSHECETIKRERKESKOT 299  
 DB 281 -DPQPPPHIPIWITAVLPT-VIICVMVFCLLIWKKKKKGRPRNSYKCGTNTMERSEOT 338  
 QY 300 NERVEYHYPERSDEAOCV-NILKTASGDKN 328  
 DB 339 KKREKIHIPERSDEAOCV-NILKTASGDKN 368

RESULT 6

US-08-456-104-2  
 ; Sequence 2, Application US/08456104  
 ; Patent No. 5861310  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Freeman, Gordon J.  
 ; APPLICANT: Nadler, Gary S.  
 ; TITLE OF INVENTION: TUMOR CELLS MODIFIED TO EXPRESS B7-2 AND B7-3 WITH INCREASE  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVS & COCKFIELD  
 ; STREET: 60 State Street, Suite 510  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM: disk  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/456,104  
 ; FILING DATE:  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA: 08/101,624,  
 ; APPLICATION NUMBER:  
 ; FILING DATE: 26-JUL-1993;  
 ; APPLICATION NUMBER: 08/109,393;  
 ; APPLICATION NUMBER: 19-AUG-1993  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Mandragouras, Amy E.  
 ; REGISTRATION NUMBER: 36,207  
 ; REFERENCE/DOCKET NUMBER: RPI-008  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 329 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-456-104-2

Query Match 52.08; Score 903; DB 2; Length 329;  
 Best Local Similarity 58.38; Pred. No. 2.1e-83;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 7 TWGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVPMQDQDKLV 66  
 DB 6 TWGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVPMQDQDKLV 65  
 QY 67 YEIFRGENPONVHLKYKGRTSFQKONWTLRLHNVQIKDGYTHCFIHYKPKGLVPMHQ 126  
 DB 66 NEVLNVEYLKKEKPSVHVKYMGRTSPDSQSWTLRLHNVQIKDGYTHCFIHYKPKGLVPMHQ 125  
 QY 127 MSSDLSVLNFSQPEITVTSNRTEGSIINLTCSISQGYPEPKMYFOLNTENSTTKYDT 186  
 DB 126 MNSLSVLNFSQPEITVTSNRTEGSIINLTCSISQGYPEPKMYFOLNTENSTTKYDT 184  
 QY 187 VMKSKQNNVTLNYSISLPSVBAHNSVFCALKLEMLL-SLPPNDAQPKDQPE 245  
 DB 195 IMQSKQNNVTLNYSISLPSVBAHNSVFCALKLEMLL-SLPPNDAQPKDQPE 241  
 QY 246 BOGHFLWIAAVALVMPVFCGMSFKTLRKKQPGPSHECETIKRERKESKOTNERVP 304  
 DB 242 PPDHPIWITAVLPT-VIICVMVFCLLIWKKKKKGRPRNSYKCGTNTMERSEOTKKRHK 300  
 QY 305 YHYPERSDEAOCV-NILKTASGDKN 328

Db 301 THIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 7

US-08-101-624-2  
; Sequence 2, Application US/08101624  
; Patent No. 5942607  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; APPLICANT: Gray, Gary S.  
; TITLE OF INVENTION: No. 5942607a1 CTIL4/CD28 Ligands and  
; TITLE OF INVENTION: Uses Therefor  
; NUMBER OF SEQUENCES: 25  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 State Street, Suite 510  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/101,624  
; FILING DATE: 26-JUL-1993  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragoras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-004  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-101-624-2

Query Match 52.0%; Score 903; DB 2; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKLV 66  
Db 6 TMGLSNILFWMAFLLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFQDQENLV 65  
QY 67 YEIRGKPNQVHLKYKRTSFDKQNTLHLNVQIKDGTVCPIHYKPKGLVPMHQ 126  
Db 66 NEVYLGKPKDSVHSKYMGRTSFDSDSWTLRLNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLANFSPQEIYVTSNRTENSIGIINLTCSIIQYEPKEMFQNLNTSTTKYDT 186  
Db 126 MNSLSVLANFSPQEIYVTSNRTENSIGIINLTCSIIQYEPKEMFQNLNTSTIEYDG 184  
QY 187 VMKSSQNVNTELVNYSISLPFSVPB-AHNVSFPCALKLETLEMLLSPFNIDAPKDKP 245  
Db 185 IMQSQNVTELVNYSISLPFSVPB-AHNVSFPCALKLETLEMLLSPFNIDAPKDKP 245  
QY 246 EQGHFLIAVLVNFVFCGVSKFLAK-RKKQPGPSHECTIKREKESKQNERVP 304  
Db 242 PPDHPIWITAVLT-VIICVMVFCILWKKKKRPRNSYKCGTNTMEREESEQTKREK 300

QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
Db 301 THIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 8

US-08-479-744A-2  
; Sequence 2, Application US/08479744A  
; Patent No. 6084067  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; APPLICANT: Gray, Gary S.  
; TITLE OF INVENTION: No. 6084067a1 CTIL4/CD28 Ligands and  
; TITLE OF INVENTION: Uses Therefor  
; NUMBER OF SEQUENCES: 55  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 60 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/479,744A  
; FILING DATE: June 7, 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/280,757  
; FILING DATE: 26-JUL-1994  
; APPLICATION NUMBER: 08/109,393  
; FILING DATE: 28-AUG-1993  
; APPLICATION NUMBER: 08/101,624  
; FILING DATE: 26-JULY-1993  
; APPLICATION NUMBER: 08/147,773  
; FILING DATE: 3-NOV-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragoras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-004CP3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-479-744A-2

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKLV 66  
Db 6 TMGLSNILFWMAFLLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFQDQENLV 65  
QY 67 YEIRGKPNQVHLKYKRTSFDKQNTLHLNVQIKDGTVCPIHYKPKGLVPMHQ 126  
Db 66 NEVYLGKPKDSVHSKYMGRTSFDSDSWTLRLNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLANFSPQEIYVTSNRTENSIGIINLTCSIIQYEPKEMFQNLNTSTTKYDT 186  
Db 126 MNSLSVLANFSPQEIYVTSNRTENSIGIINLTCSIIQYEPKEMFQNLNTSTIEYDG 184  
QY 187 VMKSSQNVNTELVNYSISLPFSVPB-AHNVSFPCALKLETLEMLLSPFNIDAPKDKP 245

DB 185 IMKSDQNVTELYDVSLVSFPDVTNMTIFCILETDKTR-LLSPPFIELE--DPQP 241  
 QY 246 EOGHFLMTAAVLVNFVFCGVSFKTLRK-RKKQPGPSHECETIKERKESKQTNERP 304  
 DB 242 PDHLPMTAVLPT-VIICVMVFCILWKKKKRPNRSYKCGTNTWREESSTQCRK 300  
 QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
 DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 9

US-08-280-757B-2  
 / Sequence 2, Application US/08280757B  
 / Patent No. 6130316  
 / GENERAL INFORMATION:  
 / APPLICANT: Freeman, Gordon J.  
 / APPLICANT: Nadler, Lee M.  
 / APPLICANT: Gray, Gary S.  
 / APPLICANT: Greenfield, Edward  
 / TITLE OF INVENTION: No. 6130316el CTIA4/CD28 Ligands and  
 / NUMBER OF SEQUENCES: 53  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: LAHIVE & COCKFIELD  
 / STREET: 60 State Street, Suite 510  
 / CITY: Boston  
 / STATE: Massachusetts  
 / COUNTRY: USA  
 / ZIP: 02109

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/280,757B  
 FILING DATE: 26-JUL-1994  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/101,624  
 FILING DATE: 26-JULY-1993  
 APPLICATION NUMBER: 08/109,393  
 FILING DATE: 19-AUG-1993  
 APPLICATION NUMBER: 08/147,773  
 FILING DATE: 3-NOV-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Mandragoras, Amy E.  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: RPI-004CP2  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 329 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-280-757B-2

Query Match 52.0%; Score 903; DB 3; Length 329;  
 Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHLLVWALLLSGVSSMKSQAYFNKVTGELPCHFTNSQISLDELVLVFMQDDKLV 66  
 DB 6 TWGLSNILFWAFLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFMDQENLV 65  
 QY 67 YEIPRGENPQVHLKYKGTSPDKONTLRLHNVQIKDKGTYHCFTHYKGPGLVPMHQ 126  
 DB 66 NEVYLKKEKEDSVHSKYMGTSPDSMTLRLHNLQIKDKGLYQCIHHKKTPTGMIRHQ 125

QY 127 MGSLSVLANPSQPEITVTSNRTENSGIINLTCSIOGYPPEKMYFQLATENSTTKYDT 186  
 DB 126 MNSLSVLANPSQPEIVPISNITBNV-YINLTCSIIHGYPEPKOMSVLLATKNTSTIRYDG 184  
 QY 187 VMKSSQNNVTENVISLSPFVPE-ARNVSVFCALKLTLEMLLSLPPKFNIDAPKDKOP 245  
 DB 185 IMKSDQNVTELYDVSLVSFPDVTNMTIFCILETDKTR-LLSPPFIELE--DPQP 241  
 QY 246 EOGHFLMTAAVLVNFVFCGVSFKTLRK-RKKQPGPSHECETIKERKESKQTNERP 304  
 DB 242 PDHLPMTAVLPT-VIICVMVFCILWKKKKRPNRSYKCGTNTWREESSTQCRK 300  
 QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
 DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 10

US-08-205-697A-23  
 / Sequence 23, Application US/08205697A  
 / Patent No. 6218510  
 / GENERAL INFORMATION:  
 / APPLICANT: Sharpe, Arlene H.  
 / APPLICANT: Borriello, Francescopaulo  
 / APPLICANT: Freeman, Gordon J.  
 / APPLICANT: Nadler, Lee M.  
 / TITLE OF INVENTION: No. 6218510el Forms of T Cell Costimulatory Molecules  
 / NUMBER OF SEQUENCES: 61  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: LAHIVE & COCKFIELD  
 / STREET: 60 State Street, suite 510  
 / CITY: Boston  
 / STATE: Massachusetts  
 / COUNTRY: USA  
 / ZIP: 02109-1875

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: ASCII Text  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/205,697A  
 FILING DATE: 02-Mar-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Mandragoras, Amy E.  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: BWI-120  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 23:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 329 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-205-697A-23

Query Match 52.0%; Score 903; DB 3; Length 329;  
 Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHLLVWALLLSGVSSMKSQAYFNKVTGELPCHFTNSQISLDELVLVFMQDDKLV 66  
 DB 6 TWGLSNILFWAFLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFMDQENLV 65  
 QY 67 YEIPRGENPQVHLKYKGTSPDKONTLRLHNVQIKDKGTYHCFTHYKGPGLVPMHQ 126  
 DB 66 NEVYLKKEKEDSVHSKYMGTSPDSMTLRLHNLQIKDKGLYQCIHHKKTPTGMIRHQ 125  
 QY 127 MGSLSVLANPSQPEITVTSNRTENSGIINLTCSIOGYPPEKMYFQLATENSTTKYDT 186



Db 126 MNSLSVLNFSQPEIVPIISNITENV-YINLTCSHGYPEPKOMSVLLATKSTIYDQ 184  
QY 187 VMKSGONVVELYNVISLSPFVPE-AHNVSVFCALKLETLEMLLSLPPFIDAOQKOP 245  
Db 185 IMQKSDQNVVELYDVISLSVSPDVTSNMTIFCILETDKTR-LLSFPFSEIE--DPQP 241  
QY 246 EOGHFLMTAAVLVNVFVFCOMVSFKTLRK-RKQKQPGPSHECFITKIKERKESQTNV 304  
Db 242 PPDHPIWITAVLEPT-VIICVMVFCLILWKWKKKGRPNRYKCGTNTWREESBQTKREK 300  
QY 305 YHVPERDEAQC-V-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTS6CDXS 325

## RESULT 11

US-08-702-525-23  
; Sequence 23, Application US/08702525  
; Patent No. 6294660  
; GENERAL INFORMATION:  
; APPLICANT: Sharpe, Sharpe  
; APPLICANT: Bortello, Francescopaolo  
; APPLICANT: Freeman, Gordon  
; APPLICANT: Nadler, Lee  
; TITLE OF INVENTION: No. 6294660el Forms of T Cell Costimulatory  
; TITLE OF INVENTION: Molecules and Uses Therefor  
; NUMBER OF SEQUENCES: 65  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109-1875  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/702,525  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/205,697  
; FILING DATE: 02-Mar-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: BWI-120CPUS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)227-5941  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-702-525-23

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLTLLVALLSGVSMKSOAYFNKGTGLPCHPTNSGNISLDELVVFQDQKLV 66  
Db 6 TGLSNILFWAFELLSGAAPLKIQAYFNETADLPQFANSONSLSELVVFQDQENLV 65  
QY 67 YEIPGKXENPQVHLKYKGRTSFDKDNWTLRLHNVQIKDKGTGHCIFHYKGPGLVPMHQ 126  
Db 66 NEVYLGKKEKDSVHSKYMGRTSFDSWTLRLHNLQIKDKGLYOCYIHHKKTGMIRHQ 125

QY 127 MSSLSVLNFSQPEIVTTSNRTENSILNLTCSHGYPEPKEMYFQLATENSTTKYDT 186  
Db 126 MNSLSVLNFSQPEIVPIISNITENV-YINLTCSHGYPEPKOMSVLLATKSTIYDQ 184  
QY 187 VMKSGONVVELYNVISLSPFVPE-AHNVSVFCALKLETLEMLLSLPPFIDAOQKOP 245  
Db 185 IMQKSDQNVVELYDVISLSVSPDVTSNMTIFCILETDKTR-LLSFPFSEIE--DPQP 241  
QY 246 EOGHFLMTAAVLVNVFVFCOMVSFKTLRK-RKQKQPGPSHECFITKIKERKESQTNV 304  
Db 242 PPDHPIWITAVLEPT-VIICVMVFCLILWKWKKKGRPNRYKCGTNTWREESBQTKREK 300  
QY 305 YHVPERDEAQC-V-NILKTASGDKN 328  
Db 301 IHIPERSDEAQRVFKSKTS6CDXS 325

## RESULT 12

US-08-403-253A-4  
; Sequence 4, Application US/08403253A  
; Patent No. 6352694  
; GENERAL INFORMATION:  
; APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.  
; APPLICANT: Gray, Gary S., Rennert, Paul D.  
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cell  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/403,253A  
; FILING DATE: March 10, 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/253,964  
; FILING DATE: 3 JUNE 1994  
; APPLICATION NUMBER: US 08/073,223  
; FILING DATE: 4 JUNE 1993  
; APPLICATION NUMBER: US 08/200,947  
; FILING DATE: 23 FEB 1994  
; APPLICATION NUMBER: US 07/864,805  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 08/247,505  
; FILING DATE: 23 MAY 1994  
; APPLICATION NUMBER: US 07/864,866  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 08/218,155  
; FILING DATE: 25 MAR 1994  
; APPLICATION NUMBER: US 07/864,807  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 07/902,467  
; FILING DATE: 16 JUNE 1992  
; APPLICATION NUMBER: US 07/275,433  
; FILING DATE: 23 NOV 1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-002CP2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 742-4214  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-403-253A-4

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLTLLVWALLSGVSMKSOAYFNKTGELPCHFTNSONISLDELVVFQDQKLV 66  
DB 6 TMGLSNILFWAFLSAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQENLV 65  
QY 67 YEIPRGKENPQVHLKYKRTSFDKDNMTLRLHNVQIKDGTTHCFHYHKGPKGLVPMHQ 126  
DB 66 NEVYLKKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLNPFQSEIIVTSNRTSGIINLTCSIOGYPEPKMYPQLNTENSTTKYDT 186  
DB 126 MNSLSVLNPFQSEIIVPISNITENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIYDG 184  
QY 187 VMKSONNVTLYNVSISLFFSVPE-AHNVSVFCAKLETLEMLLSLPFNIDAQPKDOP 245  
DB 185 IMKSONNVTLYNVSISLVSFPDVTNMTIFCILETDKTR-LLSPFSIBLE--DPQP 241  
QY 246 EQGHFLWIAAVLVMFVFCGMVSEKTLRK-RKKQKQPSHECTIKERKESKOTNERVP 304  
DB 242 PPDHIFWITAVLPT-VIICVMVFCILWKKKKRPRNSVKCTNTNWERSESEQTKCKEK 300  
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSSKTSKCDKS 325

## RESULT 13

US-08-435-816A-4  
Sequence 4, Application US/08435816A  
Patent No. 6534055

## GENERAL INFORMATION:

APPLICANT: Thompson, Craig B.  
APPLICANT: Nabel, Gary J.  
APPLICANT: Gray, Gary J.  
APPLICANT: Rennert, Paul D.  
TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells  
NUMBER OF SEQUENCES: 14

## CORRESPONDENCE ADDRESS:

ADDRESSES: LAHIVE & COCKFIELD  
STREET: 60 State Street, Suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/435,816A  
FILING DATE: May 4, 1995

## CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/403,253  
FILING DATE: 10 MARCH 1995  
APPLICATION NUMBER: US 08/253,964  
FILING DATE: 3 JUNE 1994  
APPLICATION NUMBER: US 08/073,223  
FILING DATE: 4 JUNE 1993  
APPLICATION NUMBER: US 08/200,947  
FILING DATE: 23 FEB 1994  
APPLICATION NUMBER: US 07/864,805  
FILING DATE: 7 APR 1992

APPLICATION NUMBER: US 08/247,505  
FILING DATE: 23 MAY 1994  
APPLICATION NUMBER: US 07/864,866  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 08/218,155  
FILING DATE: 25 MAR 1994  
APPLICATION NUMBER: US 07/864,807  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 07/902,467  
FILING DATE: 16 JUNE 1992  
APPLICATION NUMBER: US 07/275,433  
FILING DATE: 23 NOV 1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoutas, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-002CP3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-435-816A-4

Query Match 52.0%; Score 903; DB 4; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLTLLVWALLSGVSMKSOAYFNKTGELPCHFTNSONISLDELVVFQDQKLV 66  
DB 6 TMGLSNILFWAFLSAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQENLV 65  
QY 67 YEIPRGKENPQVHLKYKRTSFDKDNMTLRLHNVQIKDGTTHCFHYHKGPKGLVPMHQ 126  
DB 66 NEVYLKKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLNPFQSEIIVTSNRTSGIINLTCSIOGYPEPKMYPQLNTENSTTKYDT 186  
DB 126 MNSLSVLNPFQSEIIVPISNITENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIYDG 184  
QY 187 VMKSONNVTLYNVSISLFFSVPE-AHNVSVFCAKLETLEMLLSLPFNIDAQPKDOP 245  
DB 185 IMKSONNVTLYNVSISLVSFPDVTNMTIFCILETDKTR-LLSPFSIBLE--DPQP 241  
QY 246 EQGHFLWIAAVLVMFVFCGMVSEKTLRK-RKKQKQPSHECTIKERKESKOTNERVP 304  
DB 242 PPDHIFWITAVLPT-VIICVMVFCILWKKKKRPRNSVKCTNTNWERSESEQTKCKEK 300  
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSSKTSKCDKS 325

## RESULT 14

US-09-425-762-2

Sequence 2, Application US/09425762

Patent No. 6605279

## GENERAL INFORMATION:

APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Gary S.  
TITLE OF INVENTION: No. 6605279el CTLA4/CD28 Ligands and  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA

ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION NUMBER: US/09/425,762  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: 08/479,744  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoras, Amy B.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-004CP3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-425-762-2

Query Match 52.0%; Score 903; DB 4; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSONTSLDELVVFQDQDKLVL 66  
DB 6 TMGLSNILFVMAFLSGAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQENLVL 65  
QY 67 YEIPRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGPGLVPMHQ 126  
DB 66 NEVYLGRKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKTGMIRIHQ 125  
QY 127 MSSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMVQNTNSTTKYDT 186  
DB 126 MNSLSVLANFSPQPEIVPISNITENV-YINLTCSIIHGYPEPKKMSVLLRTKNTSTIEYDG 184  
QY 187 VMKSKQNVVTELNVVISLPPSVPE-AHNVSVFCALKLETLMLLSLPNDIDAPKQKOP 245  
DB 185 IMQSKQNVTELVDVSVISLSVSPDVTNSNTIFCILETDKTR-LLSPFSIELE--DPQP 241  
QY 246 EQGHFLWIAAVLVFVFCGMVSPFKTLRK-RKKQPGPSHECETIKRERKESKQTNERP 304  
DB 242 PPDHPIWITAVLPT-VIICVMVFCLILWKKKRPRNSYKCGTNTMERESESEQTKGKEK 300  
QY 305 YHVPERSDEAQCYNILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSSKTSKCDKS 325

RESULT 15  
US-09-837-867A-23  
Sequence 23, Application US/09837867A  
Patent No. 6608180  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Bottiello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
TITLE OF INVENTION: Molecules and Uses Thereof  
FILE REFERENCE: BWI-120CPADV  
CURRENT APPLICATION NUMBER: US/09/837,867A  
CURRENT FILING DATE: 2001-04-17  
PRIOR APPLICATION NUMBER: 08/205,697  
PRIOR FILING DATE: 1994-03-02

NUMBER OF SEQ ID NOS: 42  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 23  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-837-867A-23  
Query Match 52.0%; Score 903; DB 4; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
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DB 6 TMGLSNILFVMAFLSGAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQENLVL 65  
QY 67 YEIPRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGPGLVPMHQ 126  
DB 66 NEVYLGRKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKTGMIRIHQ 125  
QY 127 MSSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMVQNTNSTTKYDT 186  
DB 126 MNSLSVLANFSPQPEIVPISNITENV-YINLTCSIIHGYPEPKKMSVLLRTKNTSTIEYDG 184  
QY 187 VMKSKQNVVTELNVVISLPPSVPE-AHNVSVFCALKLETLMLLSLPNDIDAPKQKOP 245  
DB 185 IMQSKQNVTELVDVSVISLSVSPDVTNSNTIFCILETDKTR-LLSPFSIELE--DPQP 241  
QY 246 EQGHFLWIAAVLVFVFCGMVSPFKTLRK-RKKQPGPSHECETIKRERKESKQTNERP 304  
DB 242 PPDHPIWITAVLPT-VIICVMVFCLILWKKKRPRNSYKCGTNTMERESESEQTKGKEK 300  
QY 305 YHVPERSDEAQCYNILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSSKTSKCDKS 325  
Search completed: August 17, 2005, 19:00:02  
Job time : 25 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2005, 18:58:34 ; Search time 158 Seconds  
(without alignments)  
815.391 Million cell updates/sec

**Title:** US-09-303-510-6  
**Perfect score:** 1737  
**Sequence:** 1 MGICDSTWGLSHTLLYNALL.....RSDEAQCWNILKTASGDYQN 329

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1759131 seqs, 391586102 residues  
Total number of hits satisfying chosen parameters: 1759131

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications\_AA.\*

1: /cgn2\_6/ptodata/2/pubpaa/US07 PUBCOMB.pcp.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT NEW PUB.pcp.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US05 NEW PUB.pcp.\*  
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5: /cgn2\_6/ptodata/2/pubpaa/US07 NEW PUB.pcp.\*  
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11: /cgn2\_6/ptodata/2/pubpaa/US09C PUBCOMB.pcp.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09 NEW PUB.pcp.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10A PUBCOMB.pcp.\*  
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16: /cgn2\_6/ptodata/2/pubpaa/US10D PUBCOMB.pcp.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US10E PUBCOMB.pcp.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US10 NEW PUB.pcp.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US11A PUBCOMB.pcp.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US11 NEW PUB.pcp.\*  
21: /cgn2\_6/ptodata/2/pubpaa/US60 NEW PUB.pcp.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60 PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query		Length	DB	ID	Description
		Match	Length				
1	1737	100.0	329	9	US-09-303-510-6		Sequence 6, Appli
2	1737	100.0	329	9	US-09-303-040-6		Sequence 6, Appli
3	1726	99.4	332	16	US-10-790-196-26		Sequence 26, Appli
4	1372	79.0	329	16	US-10-790-396-7		Sequence 7, Appli
5	1157.5	66.6	280	16	US-10-790-396-17		Sequence 17, Appli
6	903	52.0	329	8	US-08-592-711-4		Sequence 4, Appli
7	903	52.0	329	9	US-09-163-055-4		Sequence 4, Appli
8	903	52.0	329	9	US-09-425-762-2		Sequence 2, Appli
9	903	52.0	329	9	US-09-837-667A-23		Sequence 23, Appli
10	903	52.0	329	10	US-09-441-411-26		Sequence 26, Appli
11	903	52.0	329	10	US-09-962-969-23		Sequence 23, Appli

## ALIGNMENTS

```

RESULT 1
US-09-303-510-6
; Sequence 6, Application US/09303510A
; Patent No. US20020028208A1
; GENERAL INFORMATION:
; APPLICANT: Collisnon, Ellen W.
; APPLICANT: Haash, Stephen M.
; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline
; CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Feline
US-09-303-510-6

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	Query Match	100.0%	Score 1737	DB 9	Length 329
	Best Local Similarity	100.0%	Pred. No. 1.2e-134		
	Matches 329	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTCGELPCHFTNSQNSISLDELVVFWOD	60		
DB	1	MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTCGELPCHFTNSQNSISLDELVVFWOD	60		
QY	61	QDKLVLYEIPRKENPQNVHLKYKRTSFDDNNVTLRLHNVQIKDGTGTHCFHYHKGPKG	120		
DB	61	QDKLVLYEIPRKENPQNVHLKYKRTSFDDNNVTLRLHNVQIKDGTGTHCFHYHKGPKG	120		

QY 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINLTCSIIQGYPEPKEMYFQNLNTENS 180  
DB 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINLTCSIIQGYPEPKEMYFQNLNTENS 180  
QY 181 TTKYDVTWKSSQNNVTNLVNSISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
DB 181 TTKYDVTWKSSQNNVTNLVNSISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
QY 241 KKDPEQGHFLNTAAVLNVPVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
DB 241 KKDPEQGHFLNTAAVLNVPVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
QY 301 ERVPYHVPERSDEAQCQNVILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCQNVILKTASGDKNQ 329

## RESULT 2

US-09-303-040-6  
; Sequence 6, Application US/09303040  
; Patent No. US20020051792A1  
; GENERAL INFORMATION:  
; APPLICANT: Cochran, Mark D.  
; APPLICANT: Winslow, Barbara J.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,870  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 9; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.2e-134;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLSHLTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNLSDLVVFWQD 60  
DB 1 MGICDSTMGSLSHLTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNLSDLVVFWQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTHCPIHYKGP 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTHCPIHYKGP 120  
QY 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINLTCSIIQGYPEPKEMYFQNLNTENS 180  
DB 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINLTCSIIQGYPEPKEMYFQNLNTENS 180  
QY 181 TTKYDVTWKSSQNNVTNLVNSISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
DB 181 TTKYDVTWKSSQNNVTNLVNSISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
QY 241 KKDPEQGHFLNTAAVLNVPVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
DB 241 KKDPEQGHFLNTAAVLNVPVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
QY 301 ERVPYHVPERSDEAQCQNVILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCQNVILKTASGDKNQ 329

## RESULT 3

US-10-790-396-26  
; Sequence 26, Application US/10790396

Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kea  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 16; Length 332;  
Best Local Similarity 99.4%; Pred. No. 9.8e-134;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGICDSTMGSLSHLTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNLSDLVVFWQD 60  
DB 1 MGICDSTMGSLSHLTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNLSDLVVFWQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTHCPIHYKGP 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTHCPIHYKGP 120  
QY 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINLTCSIIQGYPEPKEMYFQNLNTENS 180  
DB 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINLTCSIIQGYPEPKEMYFQNLNTENS 180  
QY 181 TTKYDVTWKSSQNNVTNLVNSISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
DB 181 TTKYDVTWKSSQNNVTNLVNSISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
QY 241 KKDPEQGHFLNTAAVLNVPVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
DB 241 KKDPEQGHFLNTAAVLNVPVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
QY 301 ERVPYHVPERSDEAQCQNVILKTASGDKN 328  
DB 301 ERVPYHVPERSDEAQCQNVILKTASGDKN 328

## RESULT 4

US-10-790-396-7  
; Sequence 7, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kea  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Canis familiaris  
US-10-790-396-7

Query Match 79.8%; Score 1157.5; DB 16; Length 280;  
Best Local Similarity 81.7%; Pred. No. 1.4e-104;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;  
QY 7 TNGLSHTLLVWALLLGGVSSMKSQAYFNKTGELPCHFTNNSQNSLSDELVVFQDDQKLVL 66  
DB 6 TMLNLTFLVMTLLYGAASMKSQAYFNKTGELPCHFTNNSQNSLSDELVVFQDDQKLVL 65  
QY 67 YEIPRGKENPQNVHLYKGRTSFDKDNMTLRLHNVQIKDKGTYHCPTHYKGPGLVPMHQ 126  
DB 66 YELRGKENPQNVHLYKGRTSFDKDNMTLRLHNIQIKDGLYOCFVHHKGPGLVPMHQ 125  
QY 127 MSSDLVLNPFSPQPEITVTSNRTNSGIIINTCSIOGYPEPKMYFQNTNENSTTKYDT 186  
DB 126 MNSDLVLNPFSPQPEITVTSNRTNSGIIINTCSIOGYPEPKMYFQNTNENSTTKYDT 185  
QY 187 VMKSSQNNVTLYNVISISLPSFVPEAHNVSVFCALKLTLEMLLSLFPNIDAPKDKDPE 246  
DB 186 VMKSSQNNVTLYNVISISLPSFVPEASNVSVFCVLESNK-LPSLPYNI-DAHTK-PTPD 243  
QY 247 QGHFLWTAALVLMFVPCGWSFKTLRKKKKQKQPSHCECTIKRERKSKOTNERVPYH 306  
DB 244 GDHLWTAALVLMVTLCCGTVFLTLRKKKKQKQPSHCECTIKRERKSKOTNERVPYH 303  
QY 307 VPSRDEAQCWNILKTASGDKN 328  
DB 304 ETERSDEAQCWNISKTASGDS 325

## RESULT 5

US-10-790-396-17  
Sequence 17, Application US/10790396  
Publication No. US20040157296A1  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Ke  
APPLICANT: Yang, Shumin  
APPLICANT: Sellins, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
FILE REFERENCE: IN-1-C1-PCT  
CURRENT APPLICATION NUMBER: US/10/790,396  
PRIOR FILING DATE: 2004-03-01  
PRIOR APPLICATION NUMBER: US/09/646,561  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: 60/078,765  
PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/062,597  
PRIOR FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 17  
LENGTH: 280  
TYPE: PRT  
ORGANISM: Canis familiaris  
US-10-790-396-17

Query Match 66.6%; Score 1157.5; DB 16; Length 280;  
Best Local Similarity 70.8%; Pred. No. 5.3e-87;  
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
QY 7 TNGLSHTLLVWALLLGGVSSMKSQAYFNKTGELPCHFTNNSQNSLSDELVVFQDDQKLVL 66  
DB 6 TMLNLTFLVMTLLYGAASMKSQAYFNKTGELPCHFTNNSQNSLSDELVVFQDDQKLVL 65  
QY 67 YEIPRGKENPQNVHLYKGRTSFDKDNMTLRLHNVQIKDKGTYHCPTHYKGPGLVPMHQ 126

Db 66 YELRGKENPQNVHLYKGRTSFDKDNMTLRLHNIQIKDGLYOCFVHHKGPGLVPMHQ 125  
QY 127 MSSDLVLNPFSPQPEITVTSNRTNSGIIINTCSIOGYPEPKMYFQNTNENSTTKYDT 186  
DB 126 MNSDLVLNPFSPQPEITVTSNRTNSGIIINTCSIOGYPEPKMYFQNTNENSTTKYDT 185  
QY 187 VMKSSQNNVTLYNVISISLPSFVPEAHNVSVFCALKLTLEMLLSLFPNIDAPKDKDPE 246  
DB 186 VMKSSQNNVTLYNVISISLPSFVPEASNVSVFCVLESNK-LPSLPYNI-DAHTK-PTPD 234  
QY 247 QGHFLWTAALVLMFVPCGWSFKTLRKKKKQKQPSHCECTIKRERKSKOTNERVPYH 306  
DB 235 ETERSDEAQCWNISKTASGDS 276  
QY 307 VPSRDEAQCWNILKTASGDKN 328  
DB 255 ETERSDEAQCWNISKTASGDS 276

## RESULT 6

US-08-592-711-4  
Sequence 4, Application US/08592711  
Publication No. US20020115214A1  
GENERAL INFORMATION:  
APPLICANT: June, Carl H.  
APPLICANT: Thompson, Craig B.  
APPLICANT: Nabel, Gary J.  
APPLICANT: Gray, Gary S.  
APPLICANT: Renkert, Paul D.  
TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cell  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/592,711  
FILING DATE: 26-JAN-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/435,816  
FILING DATE: 4-MAY-1995  
APPLICATION NUMBER: US 08/403,253  
FILING DATE: 10-MARCH-1995  
APPLICATION NUMBER: US 08/253,964  
FILING DATE: 3-JUNE-1994  
APPLICATION NUMBER: US 08/073,223  
FILING DATE: 4-JUNE-1993  
APPLICATION NUMBER: US 08/200,947  
FILING DATE: 23-FEB-1994  
APPLICATION NUMBER: US 07/864,805  
FILING DATE: 7-APR-1992  
APPLICATION NUMBER: US 08/247,505  
FILING DATE: 23-MAY-1994  
APPLICATION NUMBER: US 07/864,866  
FILING DATE: 7-APR-1992  
APPLICATION NUMBER: US 08/218,155  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: US 07/864,807  
FILING DATE: 7-APR-1992  
APPLICATION NUMBER: US 07/902,467  
FILING DATE: 16-JUNE-1992  
APPLICATION NUMBER: US 07/275,433  
FILING DATE: 23-NOV-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoras, Amy E.

```
/ REGISTRATION NUMBER: 36,207
/ REFERENCE/DOCKET NUMBER: RPI-002CP4
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 329 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-592-711-4

Query Match      52.0%; Score 903; DB 8; Length 329;
Best Local Similarity 58.5%; Pred. No. 6,1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSMKQAYFNKTGELPCHFTNSQNSISLDELVVFMDQDKLV 66
DB 6 TMGLSNTLPVMAFLSQAAPLKIAYFNETADLPQCFANSQNSLSLSELVVFMDQENLV 65
QY 67 YEIFRGKENPQVHLKYKRTSFDKQNTLRLNNVQIKDKGYHCFHYGPKGLVPMHQ 126
DB 66 NEVYLKKEKPDVSHSKYMGRTSPDSWTLRLNLIQIKDKGLYQCIHHKKPTGMIRHQ 125
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QY 187 VMKSKQNVTELYNVSISLSPFVPE-AHNVSVFCALKLBLEMLLSLPFNIDAQPKDKP 245
DB 185 IMQSQDNVTELYDVSISLSVSPDVTSNMTIFCILETDKTR-LLSPPFSIELE--DPQP 241
QY 246 EOGHPLIAAVLVNMFVFCQVSPKTLRK-RKKQPGPSHECTIKERKESKQTNERP 304
DB 242 PPDHIFWITAVLPT-VIIICVMVFCILILKWKKKRPRNSYKCGTNTWRESESGTKREK 300
QY 305 YHVPERSDEAQCQV-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKSDKS 325

RESULT 8
US-09-425-762-2
/ Sequence 2, Application US/09425762
/ Publication No. US20020086414A1
/ GENERAL INFORMATION:
/ APPLICANT: Freeman, Gordon J.
/ APPLICANT: Nadler, Lee W.
/ APPLICANT: Gray, Gary S.
/ TITLE OF INVENTION: No. 60527961 CTLA4/CD28 Ligands and
/ TITLE OF INVENTION: Uses Therefor

/ REGISTRATION NUMBER: 36,207
/ REFERENCE/DOCKET NUMBER: RPI-002CP4
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 329 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-592-711-4

Query Match      52.0%; Score 903; DB 8; Length 329;
Best Local Similarity 58.5%; Pred. No. 6,1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSMKQAYFNKTGELPCHFTNSQNSISLDELVVFMDQDKLV 66
DB 6 TMGLSNTLPVMAFLSQAAPLKIAYFNETADLPQCFANSQNSLSLSELVVFMDQENLV 65
QY 67 YEIFRGKENPQVHLKYKRTSFDKQNTLRLNNVQIKDKGYHCFHYGPKGLVPMHQ 126
DB 66 NEVYLKKEKPDVSHSKYMGRTSPDSWTLRLNLIQIKDKGLYQCIHHKKPTGMIRHQ 125
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QY 187 VMKSKQNVTELYNVSISLSPFVPE-AHNVSVFCALKLBLEMLLSLPFNIDAQPKDKP 245
DB 185 IMQSQDNVTELYDVSISLSVSPDVTSNMTIFCILETDKTR-LLSPPFSIELE--DPQP 241
QY 246 EOGHPLIAAVLVNMFVFCQVSPKTLRK-RKKQPGPSHECTIKERKESKQTNERP 304
DB 242 PPDHIFWITAVLPT-VIIICVMVFCILILKWKKKRPRNSYKCGTNTWRESESGTKREK 300
QY 305 YHVPERSDEAQCQV-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKSDKS 325

RESULT 7
US-09-183-055-4
/ Sequence 4, Application US/09183055
/ Publication No. US20020076407A1
/ GENERAL INFORMATION:
/ APPLICANT: Jung, Carl H., Thompson, Craig B., Nabel, Gary J.
/ APPLICANT: Gray, Gary S., Rennert, Paul D.
/ TITLE OF INVENTION: Methods for selectively stimulating
/ proliferation of T-cells
/ NUMBER OF SEQUENCES: 14
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: HALE AND DORR LLP
/ STREET: 60 State Street
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02109
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.15
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/183,055
/ FILING DATE: 30-Oct-1998
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/403,253
/ FILING DATE: March 10, 1995
/ APPLICATION NUMBER: US 08/253,964
/ FILING DATE: 3 JUNE 1994
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NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/425,762  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/479,744  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandregouras, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-004CP3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-425-762-2

Query Match 52.0%; Score 903; DB 9; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TGLSHTLLVMAILLGVSMSKSOAYFNKTKGELPCHFTNSQNSISLDELVWFMQDQKVL 66  
DB 6 TGLSNTILFVMAFLLSGAAPLKIQAYFNTADLPQCFANSONQSLSELVWFMQDQENLV 65  
QY 67 YEIPRGKENPQVHLKYKRTSPDKDNMTLRHNVQIKDGYTHCFHYKGPGLVPMHQ 126  
DB 66 NEVYLKGEKFDVSVHSKYMGRKTSFDSMTLRHNLQIKDGLYQCIHHKCKPTGMIRHQ 125  
QY 127 MSSDLVLANPSPQELVTVTSNETENSGIINTCSIOGYPEPKMYFQNTENSTTKYDT 186  
DB 126 MNSLSVLANPSPQELVPIPSNITENV-YINLTCSIRHGYPEPKMSVLLRTNSTIYDG 184  
QY 187 VMKSONVVELYNNVSIPLFPVPE-AHRNVVFCALKLEMLLSPFNIDAQPKDKP 245  
DB 185 IMKSDQNVTELYDVSISLSVSPDPVTSNMTIFCILETDKTR-LLSPPFSIBLE--DPQP 241  
QY 246 EQGHFLVIAVLVWVVFVCGVSPKTLRK-RKKQPGPSHECETIKRKESKQTNVRP 304  
DB 242 PPDHHPITAVLPT-VIIICVMVFCILLMKKKKRPNRSYKCGTNTWEREESQTKREK 300  
QY 305 YHVPERSDEAQC-VNLTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 9  
US-09-837-867A-23  
Sequence 23, Application US/09837867A  
Patent No. US20020098542A1  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Borriello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.

TITLE OF INVENTION: No. US20020098542A1el Forms of T Cell Costimulatory  
FILE OF INVENTION: Molecules and Uses Therefor  
FILE REFERENCE: BVI-120CPADV  
CURRENT APPLICATION NUMBER: US/09/837,867A  
CURRENT FILING DATE: 2001-04-17  
PRIOR APPLICATION NUMBER: 08/305,697  
PRIOR FILING DATE: 1994-03-02  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: PatentSeq for Windows Version 4.0  
SEQ ID NO 23  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-837-867A-23

Query Match 52.0%; Score 903; DB 9; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TGLSHTLLVMAILLGVSMSKSOAYFNKTKGELPCHFTNSQNSISLDELVWFMQDQKVL 66  
DB 6 TGLSNTILFVMAFLLSGAAPLKIQAYFNTADLPQCFANSONQSLSELVWFMQDQENLV 65  
QY 67 YEIPRGKENPQVHLKYKRTSPDKDNMTLRHNVQIKDGYTHCFHYKGPGLVPMHQ 126  
DB 66 NEVYLKGEKFDVSVHSKYMGRKTSFDSMTLRHNLQIKDGLYQCIHHKCKPTGMIRHQ 125  
QY 127 MSSDLVLANPSPQELVTVTSNETENSGIINTCSIOGYPEPKMYFQNTENSTTKYDT 186  
DB 126 MNSLSVLANPSPQELVPIPSNITENV-YINLTCSIRHGYPEPKMSVLLRTNSTIYDG 184  
QY 187 VMKSONVVELYNNVSIPLFPVPE-AHRNVVFCALKLEMLLSPFNIDAQPKDKP 245  
DB 185 IMKSDQNVTELYDVSISLSVSPDPVTSNMTIFCILETDKTR-LLSPPFSIBLE--DPQP 241  
QY 246 EQGHFLVIAVLVWVVFVCGVSPKTLRK-RKKQPGPSHECETIKRKESKQTNVRP 304  
DB 242 PPDHHPITAVLPT-VIIICVMVFCILLMKKKKRPNRSYKCGTNTWEREESQTKREK 300  
QY 305 YHVPERSDEAQC-VNLTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 10  
US-09-441-411-26  
Sequence 26, Application US/09441411  
Publication No. US20030008342A1  
GENERAL INFORMATION:  
APPLICANT: Scholler, Nathalie B.  
APPLICANT: Disig, Mary L.  
APPLICANT: Helstrom, Ingegerd  
APPLICANT: Helstrom, Karl Erik  
TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES  
FILE REFERENCE: 730033.409  
CURRENT APPLICATION NUMBER: US/09/441,411  
CURRENT FILING DATE: 1999-11-16  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: PatentSeq for Windows Version 4.0  
SEQ ID NO 26  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-441-411-26

Query Match 52.0%; Score 903; DB 10; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TGLSHTLLVMAILLGVSMSKSOAYFNKTKGELPCHFTNSQNSISLDELVWFMQDQKVL 66  
DB 6 TGLSNTILFVMAFLLSGAAPLKIQAYFNTADLPQCFANSONQSLSELVWFMQDQENLV 65



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QY	127	MSSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIOGYPPPKMYPOLNTENSTTKYDT	186
DB	126	MNSLSVLANFSPQPEIVPISNITENV-YINLTCSIIHGYPPEPKMGLVLRKTNSTIYDG	184
QY	187	VMKSSQNNVTLYNVSISLSPFSPVE-AHNVSVFCALKLETLMLLSLPFNIDAQPKMDP	245
DB	185	IMQKSDQNVTELYDVSISLSVSPDVTNNMTIFCILETDKTR-LLSSPFSISLE--DPQP	241
QY	246	EQGHFLWIAAVLVMFVFCGWSFKTLRK-RKKKQPGPSHECTIKRERKESKOTNERVP	304
DB	242	PPDHIPWITAVLPT-VIICVMFCLILWKKKKRPRNSYKCGTNTWRESEEQTKREK	300
QY	305	YHVPERSDEAQC-V-NILKTASGDKN	328
DB	301	IHIPERSDEAQRVFKSSKTSKCDKS	325
<p>RESULT 14</p> <p>US-10-390-330-4</p> <p>: Sequence 4, Application US/10390330</p> <p>: Publication No. US20040001829A1</p> <p>: GENERAL INFORMATION:</p> <p>: APPLICANT: June, Carl H.</p> <p>: APPLICANT: Thompson, Craig B.</p> <p>: APPLICANT: Nabel, Gary J.</p> <p>: APPLICANT: Gray, Gary S.</p> <p>: APPLICANT: Rennert, Paul D.</p> <p>: TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation</p> <p>: TITLE OF INVENTION: Of T-Cells</p> <p>: NUMBER OF SEQUENCES: 14</p> <p>: CORRESPONDENCE ADDRESS:</p> <p>: ADDRESS: LAHIVE &amp; COCKFIELD</p> <p>: STREET: 60 State Street, Suite 510</p> <p>: CITY: Boston</p> <p>: STATE: Massachusetts</p> <p>: COUNTRY: USA</p> <p>: ZIP: 02109</p> <p>: COMPUTER READABLE FORM:</p> <p>: MEDIUM TYPE: Floppy disk</p> <p>: COMPUTER: IBM PC compatible</p> <p>: OPERATING SYSTEM: PC-DOS/MS-DOS</p> <p>: SOFTWARE: PatentIn Release #1.0, Version #1.25</p> <p>: CURRENT APPLICATION DATA:</p> <p>: APPLICATION NUMBER: US/10/390,330</p> <p>: FILING DATE: March 17, 2003</p> <p>: CLASSIFICATION:</p> <p>: PRIOR APPLICATION DATA:</p> <p>: APPLICATION NUMBER: US/08/435,816A</p> <p>: FILING DATE: May 4, 1995</p> <p>: CLASSIFICATION:</p> <p>: APPLICATION NUMBER: US 08/403,253</p> <p>: FILING DATE: 10 MARCH 1995</p> <p>: APPLICATION NUMBER: US 08/253,964</p> <p>: FILING DATE: 3 JUNE 1994</p> <p>: APPLICATION NUMBER: US 08/073,223</p> <p>: FILING DATE: 4 JUNE 1993</p> <p>: APPLICATION NUMBER: US 08/200,947</p> <p>: FILING DATE: 23 FEB 1994</p> <p>: APPLICATION NUMBER: US 07/864,805</p> <p>: FILING DATE: 7 APR 1992</p> <p>: APPLICATION NUMBER: US 08/247,505</p> <p>: FILING DATE: 23 MAY 1994</p> <p>: APPLICATION NUMBER: US 07/864,866</p> <p>: FILING DATE: 7 APR 1992</p> <p>: APPLICATION NUMBER: US 08/218,155</p> <p>: FILING DATE: 25 MAR 1994</p> <p>: APPLICATION NUMBER: US 07/864,807</p> <p>: FILING DATE: 7 APR 1992</p> <p>: APPLICATION NUMBER: US 07/902,467</p> <p>: FILING DATE: 16 JUNE 1992</p> <p>: APPLICATION NUMBER: US 07/275,433</p>			

/ FILING DATE: 23 NOV 1988  
/ ATTORNEY/AGENT INFORMATION:  
/ NAME: Mandragoras, Amy E.  
/ REGISTRATION NUMBER: 36,207  
/ REFERENCE/DOCKET NUMBER: RPI-002CF3  
/ TELECOMMUNICATION INFORMATION:  
/ TELEPHONE: (617) 227-7400  
/ TELEFAX: (617) 227-5941  
/ INFORMATION FOR SEQ ID NO: 4:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 329 amino acids  
/ TYPE: amino acid  
/ TOPOLOGY: linear  
/ MOLECULE TYPE: protein  
/ US-10-390-330-4

Query Match 52.0%; Score 903; DB 15; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTCGELPCHFTNSQNSISLDELVVFWQDQDKLV 66  
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QY 67 YEIRFGKENQNVHLKYKRTSFDKDNMTLRLHNVQIKDKGTYHCFHYKGPGLVPMHQ 126  
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QY 127 MSSDLVLANFSPQPEITVTSNRTENSGIINLTCSISIOGYPEPKEMVFPQNTENSTTKYDT 186  
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DB 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELL--DPQP 241  
QY 246 EOGHFLIAAVLVFVFCMVSPKTLRK-BKKKOPGSPSHECETIKRERKESKOTNERVP 304  
DB 242 PPDHIPWITAVLPT-VIIICVMVFCILILWKWKKKRPRNSYKCCGTNTWERESESQTKREK 300  
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DB 301 IHIPERSDEAQRVPKSKTSKCDKS 325

Search completed: August 17, 2005, 19:12:19  
Job time : 164 secs

RESULT 15  
US-10-643-768-23  
Sequence 23, Application US/10643768  
Publication No. US20040192899A1  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Botriello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
TITLE OF INVENTION: Novel Forms of T Cell Costimulatory  
FILE REFERENCE: BWI-120CPADV  
CURRENT APPLICATION NUMBER: US/10/643,768  
CURRENT FILING DATE: 2003-08-18  
PRIOR FILING DATE: 2001-04-17  
PRIOR APPLICATION NUMBER: 08/205,697  
PRIOR FILING DATE: 1994-03-02  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 23  
LENGTH: 329  
TYPE: PPT  
ORGANISM: Homo sapiens  
US-10-643-768-23

Query Match 52.0%; Score 903; DB 16; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6.1e-66;

GenCore version 5.1.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2005, 18:53:53 : Search time 483 Seconds  
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795.598 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDSMTGLSHLTLLVNAL.....RSDEAQCWNILKTSAGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6959266 seqs, 116806243 residues

Total number of hits satisfying chosen parameters: 6959266

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: /cgn2\_6/ptodata/1/paa/US06\_COMB.pep.\*  
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37: /cgn2\_6/ptodata/1/paa/US160\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	1737	100.0	329	17	US-09-303-040-6
3	1737	100.0	329	17	US-09-303-510-6
4	1737	100.0	329	22	US-09-791-537-51999
5	1737	100.0	329	26	US-10-069-636-18
6	1726	99.4	332	14	US-09-062-597A-26
7	1726	99.4	332	20	US-09-646-561-26
8	1726	99.4	332	33	US-10-790-386-26
9	1372	79.0	329	14	US-09-062-597A-7
10	1372	79.0	329	20	US-09-646-561-7
11	1372	79.0	329	26	US-10-069-636-19
12	1372	79.0	329	33	US-10-790-386-7
13	1157.5	66.6	280	14	US-09-062-597A-17
14	1157.5	66.6	280	20	US-09-646-561-17
15	1157.5	66.6	280	22	US-09-791-537-37771
16	1157.5	66.6	280	33	US-10-790-386-17
17	1157	66.6	325	26	US-10-069-646-20
18	1157	66.6	330	23	US-09-868-605-14
19	943.5	54.3	330	22	US-09-791-537-10853
20	932	53.7	372	35	US-10-940-774-11132
21	903	52.0	329	1	PCT-US03-12946-2520
22	903	52.0	329	5	US-08-109-393-2
23	903	52.0	329	5	US-08-109-393A-2
24	903	52.0	329	5	US-08-147-773-2
25	903	52.0	329	6	US-08-280-757-2
26	903	52.0	329	9	US-08-592-711-4
27	903	52.0	329	15	US-09-183-055-4
28	903	52.0	329	17	US-09-349-915A-4
29	903	52.0	329	17	US-09-349-915B-4
30	903	52.0	329	17	US-09-350-202-4
31	903	52.0	329	19	US-09-553-865-4
32	903	52.0	329	19	US-09-565-316A-4
33	903	52.0	329	21	US-09-716-928-4
34	903	52.0	329	21	US-09-716-928A-4
35	903	52.0	329	22	US-09-791-537-10852
36	903	52.0	329	25	US-09-962-969-23
37	903	52.0	329	25	US-09-962-969B-23
38	903	52.0	329	26	US-10-041-319-8
39	903	52.0	329	28	US-10-219-051B-10735
40	903	52.0	329	29	US-10-390-330-4
41	903	52.0	329	30	US-10-429-079B-2
42	903	52.0	329	32	US-10-643-768-23
43	903	52.0	329	33	US-10-756-783-6
44	903	52.0	329	33	US-10-763-128-26
45	903	52.0	329	33	US-10-767-561-2

#### ALIGNMENTS

#### RESULT 1

US-09-071-699-6  
; Sequence 6, Application US/09071699A  
; GENERAL INFORMATION:  
; APPLICANT: Collision, Ellen W  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Insou, Choi  
; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CTLA-4 Nucleic Acid  
; TITLE OF INVENTION: And Polypeptides  
; FILE REFERENCE: 54954-A  
; CURRENT APPLICATION NUMBER: US/09/071,699A  
; CURRENT FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-071-699-6

Query Match 100.0%; Score 1737; DB 14; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFMQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFMQD 60

QY 61 QDKLVLYEIPRGKENPQNVHLKYKGTSPDKONWTLRLHNVQIKDKGTYHCFHYKGPKG 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKGTSPDKONWTLRLHNVQIKDKGTYHCFHYKGPKG 120

QY 121 LVPQHOMSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPPKEMYFQNTENS 180  
DB 121 LVPQHOMSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPPKEMYFQNTENS 180

QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQP 240

QY 241 KDKPEQGHFLWIAAALVLMVFWFCGMVSPFKTLRKRRKKQKQPGSPSHECETIKRERKESKQTN 300  
DB 241 KDKPEQGHFLWIAAALVLMVFWFCGMVSPFKTLRKRRKKQKQPGSPSHECETIKRERKESKQTN 300

QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

## RESULT 2

US-09-303-040-6  
; Sequence 6, Application US/09303040  
; GENERAL INFORMATION:  
; APPLICANT: Winelow, Barbara J.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; PRIOR FILING DATE: 1999-04-30  
; PRIOR FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 17; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFMQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFMQD 60

QY 61 QDKLVLYEIPRGKENPQNVHLKYKGTSPDKONWTLRLHNVQIKDKGTYHCFHYKGPKG 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKGTSPDKONWTLRLHNVQIKDKGTYHCFHYKGPKG 120

QY 121 LVPQHOMSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPPKEMYFQNTENS 180  
DB 121 LVPQHOMSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPPKEMYFQNTENS 180

QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQP 240

QY 241 KDKPEQGHFLWIAAALVLMVFWFCGMVSPFKTLRKRRKKQKQPGSPSHECETIKRERKESKQTN 300

DB 241 KDKPEQGHFLWIAAALVLMVFWFCGMVSPFKTLRKRRKKQKQPGSPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 3  
US-09-303-510-6  
; Sequence 6, Application US/09303510A  
; GENERAL INFORMATION:  
; APPLICANT: Collisson, Ellen W.  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Chol, Insoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline  
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT APPLICATION NUMBER: US/09/303,510A  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Feline  
US-09-303-510-6

Query Match 100.0%; Score 1737; DB 17; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFMQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFMQD 60

QY 61 QDKLVLYEIPRGKENPQNVHLKYKGTSPDKONWTLRLHNVQIKDKGTYHCFHYKGPKG 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKGTSPDKONWTLRLHNVQIKDKGTYHCFHYKGPKG 120

QY 121 LVPQHOMSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPPKEMYFQNTENS 180  
DB 121 LVPQHOMSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPPKEMYFQNTENS 180

QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQP 240

QY 241 KDKPEQGHFLWIAAALVLMVFWFCGMVSPFKTLRKRRKKQKQPGSPSHECETIKRERKESKQTN 300  
DB 241 KDKPEQGHFLWIAAALVLMVFWFCGMVSPFKTLRKRRKKQKQPGSPSHECETIKRERKESKQTN 300

QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

## RESULT 4

US-09-791-537-51999  
; Sequence 5199, Application US/09791537  
; GENERAL INFORMATION:  
; APPLICANT: Biocomix, Inc.  
; APPLICANT: Debe, Derek  
; APPLICANT: Danzer, Joseph  
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME  
; TITLE OF INVENTION: METHODS OF USE THEREOF  
; FILE REFERENCE: 261/210  
; CURRENT APPLICATION NUMBER: US/09/791,537  
; CURRENT FILING DATE: 2001-02-22  
; NUMBER OF SEQ ID NOS: 153055  
; SOFTWARE: PatentIn version 3.0

SEQ ID NO 51999  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Felis catus  
US-09-791-537-51999

Query Match 100.0%; Score 1737; DB 22; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNSISLDELVVFWD 60  
DB 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNSISLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120  
QY 121 LVPKHOMSSDLSVLANSPEITVTSNRTEGIIINLTCSIIQGYPEPKMYFQNTENS 180  
DB 121 LVPKHOMSSDLSVLANSPEITVTSNRTEGIIINLTCSIIQGYPEPKMYFQNTENS 180  
QY 181 TKYDVTWKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAOP 240  
DB 181 TKYDVTWKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAOP 240  
QY 241 KDKPEQGHFLWIAAVALVWVFCGMVSFKTLRKKKKQPGSPSHECTIKRERKESQTN 300  
DB 241 KDKPEQGHFLWIAAVALVWVFCGMVSFKTLRKKKKQPGSPSHECTIKRERKESQTN 300  
QY 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329

## RESULT 5

US-10-069-626-18  
Sequence 18, Application US/10069626

GENERAL INFORMATION:  
APPLICANT: Green et al.  
TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
Lymphocyte Activation Antigen B-7 Family and  
TITLE OF INVENTION: Polypeptides Encoded Thereby  
FILE REFERENCE: 15966-562 NATL  
CURRENT APPLICATION NUMBER: US/10/069,626  
CURRENT FILING DATE: 2002-07-25  
PRIOR APPLICATION NUMBER: PCT/US00/24220  
PRIOR FILING DATE: 2000-08-31  
PRIOR APPLICATION NUMBER: 60/152393  
PRIOR FILING DATE: 1999-09-03  
PRIOR APPLICATION NUMBER: 60/172909  
PRIOR FILING DATE: 1999-12-21  
PRIOR APPLICATION NUMBER: 60/183578  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: 09/651200  
PRIOR FILING DATE: 2000-08-30  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 18  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Felis catus  
US-10-069-626-18

Query Match 100.0%; Score 1737; DB 26; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNSISLDELVVFWD 60  
DB 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNSISLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120

DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120  
QY 121 LVPKHOMSSDLSVLANSPEITVTSNRTEGIIINLTCSIIQGYPEPKMYFQNTENS 180  
DB 121 LVPKHOMSSDLSVLANSPEITVTSNRTEGIIINLTCSIIQGYPEPKMYFQNTENS 180  
QY 181 TKYDVTWKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAOP 240  
DB 181 TKYDVTWKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAOP 240  
QY 241 KDKPEQGHFLWIAAVALVWVFCGMVSFKTLRKKKKQPGSPSHECTIKRERKESQTN 300  
DB 241 KDKPEQGHFLWIAAVALVWVFCGMVSFKTLRKKKKQPGSPSHECTIKRERKESQTN 300  
QY 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329

## RESULT 6

US-09-062-597A-26  
Sequence 26, Application US/09062597A

GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Kee  
APPLICANT: Yang, Shumin  
APPLICANT: Gelling, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
MOLECULES, AND  
TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HeaKa Corporation  
STREET: 1825 Sharp Point Drive  
CITY: Fort Collins  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80525

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: WordPerfect for Windows, Version 7.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/062,597A  
FILING DATE: 17-APR-1998  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Verseer, Carol Talkington  
REGISTRATION NUMBER: 37,459  
REFERENCE/DOCKET NUMBER: IM-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 970/493-7272  
TELEFAX: 970/484-9505  
INFORMATION FOR SEQ ID NO: 26:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-09-062-597A-26

Query Match 99.4%; Score 1726; DB 14; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 NGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNSISLDELVVFWD 60  
DB 1 NGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNSISLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120



Db 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNTLRLHNVQIKDKGTYHCFHYKGPKG 120  
QY 121 LVPFHQMSDLSVLANSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENS 180  
Db 121 LVPFHQMSDLSVLANSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENS 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPFSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
Db 181 TTKYDTVMKKSQNNVTLYNVSISLPPFSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
QY 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCINILKTASGDKN 328  
Db 301 ERVPYHVPERSDEAQCINILKTASGDKS 328

## RESULT 7

US-09-646-561-26  
; Sequence 26, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felle catus  
US-09-646-561-26

Query Match 99.4%; Score 1726; DB 20; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKGTGELPCHPTNSQISLDELVVFMQD 60  
Db 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKGTGELPCHPTNSQISLDELVVFMQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNTLRLHNVQIKDKGTYHCFHYKGPKG 120  
Db 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNTLRLHNVQIKDKGTYHCFHYKGPKG 120  
QY 121 LVPFHQMSDLSVLANSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENS 180  
Db 121 LVPFHQMSDLSVLANSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENS 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPFSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
Db 181 TTKYDTVMKKSQNNVTLYNVSISLPPFSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
QY 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCINILKTASGDKN 328  
Db 301 ERVPYHVPERSDEAQCINILKTASGDKS 328

## RESULT 9

US-10-790-396-26  
; Sequence 26, Application US/10790396  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felle catus  
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 33; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKGTGELPCHPTNSQISLDELVVFMQD 60  
Db 1 MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKGTGELPCHPTNSQISLDELVVFMQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNTLRLHNVQIKDKGTYHCFHYKGPKG 120  
Db 61 QDKLVLYEIPRGKENPQNVHLKYKRTSPDKDNTLRLHNVQIKDKGTYHCFHYKGPKG 120  
QY 121 LVPFHQMSDLSVLANSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENS 180  
Db 121 LVPFHQMSDLSVLANSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENS 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPFSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
Db 181 TTKYDTVMKKSQNNVTLYNVSISLPPFSVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
QY 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCINILKTASGDKN 328  
Db 301 ERVPYHVPERSDEAQCINILKTASGDKS 328

## RESULT 9

US-09-062-597A-7  
; Sequence 7, Application US/09062597A  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; CURRENT FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felle catus  
US-09-062-597A-7

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; COMPUTER READABLE FORM;
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Takington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLSCULE TYPE: Protein
; US-09-062-597A-7

Query Match 79.0%; Score 1372; DB 14; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMSLSHTLLVNALLLSGVSSMSKSOAYFNKTGELPCHFTNSQNSISLDELVVPQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAASMSKSOAYFNKTGELPCHFTNSQNSISLDELVVPQDDKLV 65
QY 67 YEIPRGKENPONVHLKYKRTSPDKNMTLRLHNVQIKDKGYHCFHYKGPGLVPMHQ 126
DB 66 YELYRGKENPONVHRKYKRTSPDKNMTLRLHNVQIKDKGLYQCFVHHKGPGLVPMHQ 125
QY 127 MSSDLVLANFSPQPEIYVTSNRTENSIIINLTCSISIQYPEPKEMYFLVNTENSTTKYDT 186
DB 126 MNSDLVLANFSPQPEIMVTNRTENSIIINLTCSISIQYPEPKEMYFLVNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKOPE 246
DB 186 VMKKSQNNVTLYNVSISLSPFVPEASNVSIQVQLQESMK-LPSLPYNDATK-PTPD 243
QY 247 QGHFLWIAAALVLMVPCGMVSPKTLRKKKKKQPGSPSHECETIKRERKESKOTNERVPYH 306
DB 244 GDHILWIAALLVLMVLICGVNPFLLTLRKKKKKQPGSPSHECETIKRERKESKOTNERVPYH 303
QY 307 VPERSDAQCVNLIKTAGSDKN 328
DB 304 ETERSDEAQCWNISKTASGDNS 325

RESULT 11
US-10-069-626-19
; Sequence 19, Application US/10069626
; GENERAL INFORMATION:
; APPLICANT: Green et al.
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; FILE REFERENCE: 15966-562 NATL
; CURRENT APPLICATION NUMBER: US/10/069,626
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: PCT/US00/24220
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: 09/651200
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-10-069-626-19

Query Match 79.0%; Score 1372; DB 26; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMSLSHTLLVNALLLSGVSSMSKSOAYFNKTGELPCHFTNSQNSISLDELVVPQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAASMSKSOAYFNKTGELPCHFTNSQNSISLDELVVPQDDKLV 65
QY 67 YEIPRGKENPONVHLKYKRTSPDKNMTLRLHNVQIKDKGYHCFHYKGPGLVPMHQ 126
DB 66 YELYRGKENPONVHRKYKRTSPDKNMTLRLHNVQIKDKGLYQCFVHHKGPGLVPMHQ 125

; COMPUTER READABLE FORM;
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/646,561
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Takington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLSCULE TYPE: Protein
; US-09-062-597A-7

Query Match 79.0%; Score 1372; DB 14; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMSLSHTLLVNALLLSGVSSMSKSOAYFNKTGELPCHFTNSQNSISLDELVVPQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAASMSKSOAYFNKTGELPCHFTNSQNSISLDELVVPQDDKLV 65
QY 67 YEIPRGKENPONVHLKYKRTSPDKNMTLRLHNVQIKDKGYHCFHYKGPGLVPMHQ 126
DB 66 YELYRGKENPONVHRKYKRTSPDKNMTLRLHNVQIKDKGLYQCFVHHKGPGLVPMHQ 125
QY 127 MSSDLVLANFSPQPEIYVTSNRTENSIIINLTCSISIQYPEPKEMYFLVNTENSTTKYDT 186
DB 126 MNSDLVLANFSPQPEIMVTNRTENSIIINLTCSISIQYPEPKEMYFLVNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKOPE 246
DB 186 VMKKSQNNVTLYNVSISLSPFVPEASNVSIQVQLQESMK-LPSLPYNDATK-PTPD 243
QY 247 QGHFLWIAAALVLMVPCGMVSPKTLRKKKKKQPGSPSHECETIKRERKESKOTNERVPYH 306
DB 244 GDHILWIAALLVLMVLICGVNPFLLTLRKKKKKQPGSPSHECETIKRERKESKOTNERVPYH 303
QY 307 VPERSDAQCVNLIKTAGSDKN 328
DB 304 ETERSDEAQCWNISKTASGDNS 325

RESULT 10
US-09-646-561-7
; Sequence 7, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Ke
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/09/646,561
; CURRENT FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 329
; TYPE: PROTEINS, NUCLEIC
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QY	127	MSSDLSVLANFSPQPELTVTSNRNTENSGIINLTCSSTQGYPEPKENYFQOLATENSTKYDT	186
DB	126	MNSDLSVLANFSPQPELTVTSNRNTENSGIINLTCSSTQGYPEPKENYFQOLATENSTKYDT	185
QY	187	VKKSGQNNVTLYNVSISLPSFSVPEAHNVSVFCAKALLETLEMLLSLPENIDAPQKQDPE	246
DB	186	VKKSGQNNVTLYNVSISLPSFSVPEASNVISFCVLQLESMK-LPSLPYNIDATK-PTPD	243
QY	247	QGHLELWTAALVLMNFVFCGMSFKTLARKKKQGGSHCECTIKERKESKOINAEVPVH	306
DB	244	GDHLTLWTAALLVMLVILCGVFFLTLARKKKQGGPSHCECTNKRVERKESEQTKERVYH	303
QY	307	VPRSDEAQCWNILKTASGDKN	328
DB	304	ETERSDEAQCWNISKTASGDN	325

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RESULT 22
US-10-790-396-7
/ Sequence 7, Application US/10790396
/ GENERAL INFORMATION:
/ APPL-CANT: Sim, Gek-Kee
/ APPL-CANT: Yang, Shumin
/ APPLICANT: Selline, Karen S.
/ TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
/ TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
/ FILE REFERENCE: IN-1-CI-FCT
/ CURRENT APPLICATION NUMBER: US/10/790,396
/ CURRENT FILING DATE: 2004-03-01
/ PRIOR APPLICATION NUMBER: US/09/646,561
/ PRIOR FILING DATE: 2000-09-19
/ PRIOR APPLICATION NUMBER: 60/078,785
/ PRIOR FILING DATE: 1998-03-19
/ PRIOR APPLICATION NUMBER: 09/062,597
/ PRIOR FILING DATE: 1998-04-17
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn ver. 2.0
/ SEQ ID NO 7
/ LENGTH: 329
/ TYPE: PRT
/ ORGANISM: Canis familiaris
US-10-790-396-7

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RESULT 13
US-09-062-597A-17
/ SEQUENCE 17, Application US/09062597A
/ GENERAL INFORMATION:
/ APPLICANT: Sim, Gek-Keo
/ APPLICANT: Yang, Shumin
/ APPLICANT: Sellins, Karen S.
/ TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
/ TITLE OF INVENTION: PROTEINS,NUCLEIC ACID MOLECULES, AND
/ TITLE OF INVENTION: USES THEREOF
/ NUMBER OF SEQUENCES: 29
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Carol Talkington Verser, Ph.D.
/ ADDRESSEE: Heska Corporation
/ STREET: 1825 Sharp Point Drive
/ CITY: Fort Collins
/ STATE: Colorado
/ COUNTRY: USA
/ ZIP: 80525
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: Windows 95
/ SOFTWARE: wordperfect for Windows, Version 7.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/062.597A
/ FILING DATE: 17-APR-1998
/ CLASSIFICATION: 514
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Verser, Carol Talkington
/ REGISTRATION NUMBER: 37,459
/ REFERENCE/DOCKET NUMBER: IM-1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 970/493-7272
/ TELEFAX: 970/484-9505
/ INFORMATION FOR SEQ ID NO: 17:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 280 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: Protein
US-09-062-597A-17

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**RESULT 14**

US-09-646-561-17  
; Sequence 17, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; CURRENT FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 280  
; TYPE: PRT  
; ORGANISM: Canis familiaris  
US-09-646-561-17

Query Match 66.6%; Score 1157.5; DB 20; Length 280;  
Best Local Similarity 70.8%; Pred. No. 6e-102;  
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
  
QY 7 TMGLSHTLLVNALISGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66  
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 65  
  
QY 67 YEIPRGKPNQVHLYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFHYHKGPKGLVPMHQ 126  
DB 66 YELYRGKENPQVHRYKGRTSFDKDNWTLRLHNTQIKDKGLYQCFVHHKGPGLVPMHQ 125  
  
QY 127 MSSDLVLANFSPQEIIVTSNRTENSIGIINLTCSISIQGYPEPKEMYPLVKTENSTTKYDT 186  
DB 126 MNSDLVLANFSPQEIIVTSNRTENSIGIINLTCSISIQGYPEPKEMYPLVKTENSTTKYDT 185  
  
QY 187 VMKKSQNNVTLYNVISLSLSPSVPEAHNVSVFCALKLETLEMLISLPFNIDAQPKDKDPE 246  
DB 186 VMKKSQNNVTLYNVISLSLSPSVPEASNVISFCVLQLESKM-LPSLPYNI----- 234  
  
QY 247 QGHFLWIAAALVMPVPCGVNFKTLRKKKQKQPGPSHECETIKRERKESKOTNERVYPH 306  
DB 235 -----ETNKVERKESBOTKERVYH 254  
  
QY 307 VPRSDEAQCYNILKTASGDKN 328  
DB 255 ETERSDEAQCYNISKTASGDNS 276

RESULT 15  
US-09-791-537-37771  
; Sequence 37771, Application US/09791537  
; GENERAL INFORMATION:  
; APPLICANT: Bionomix, Inc.  
; APPLICANT: Debe, Derek  
; APPLICANT: Danzer, Joseph  
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS  
; TITLE OF INVENTION: METHODS OF USE THEREOF  
; FILE REFERENCE: 261/210  
; CURRENT APPLICATION NUMBER: US/09/791,537  
; CURRENT FILING DATE: 2001-02-22  
; NUMBER OF SEQ ID NOS: 153055  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 37771  
; LENGTH: 280  
; TYPE: PRT  
; ORGANISM: Canis familiaris  
US-09-791-537-37771

Query Match 66.6%; Score 1157.5; DB 22; Length 280;

Best Local Similarity 70.8%; Pred. No. 6e-102;  
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
  
QY 7 TMGLSHTLLVNALISGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66  
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 65  
  
QY 67 YEIPRGKPNQVHLYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFHYHKGPKGLVPMHQ 126  
DB 66 YELYRGKENPQVHRYKGRTSFDKDNWTLRLHNTQIKDKGLYQCFVHHKGPGLVPMHQ 125  
  
QY 127 MSSDLVLANFSPQEIIVTSNRTENSIGIINLTCSISIQGYPEPKEMYPLVKTENSTTKYDT 186  
DB 126 MNSDLVLANFSPQEIIVTSNRTENSIGIINLTCSISIQGYPEPKEMYPLVKTENSTTKYDT 185  
  
QY 187 VMKKSQNNVTLYNVISLSLSPSVPEAHNVSVFCALKLETLEMLISLPFNIDAQPKDKDPE 246  
DB 186 VMKKSQNNVTLYNVISLSLSPSVPEASNVISFCVLQLESKM-LPSLPYNI----- 234  
  
QY 247 QGHFLWIAAALVMPVPCGVNFKTLRKKKQKQPGPSHECETIKRERKESKOTNERVYPH 306  
DB 235 -----ETNKVERKESBOTKERVYH 254  
  
QY 307 VPRSDEAQCYNILKTASGDKN 328  
DB 255 ETERSDEAQCYNISKTASGDNS 276  
  
Search completed: August 17, 2005, 19:08:18  
Job time : 491 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:54:53 ; Search time 70 Seconds  
(without alignments)  
729.917 Million cell updates/sec

Title: US-09-303-510-6  
Perfect score: 1737  
Sequence: 1 MGICDSTMGSLHTLLVMALL.....RSDRAQCWNILKASGRNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 715561 seqs, 155301442 residues

Total number of hits satisfying chosen parameters: 715561

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA New.\*  
1: /cgm2\_6/prodata/2/paa/PCT\_NEW\_COMB.pep.\*  
2: /cgm2\_6/prodata/2/paa/US06\_NEW\_COMB.pep.\*  
3: /cgm2\_6/prodata/2/paa/US07\_NEW\_COMB.pep.\*  
4: /cgm2\_6/prodata/2/paa/US08\_NEW\_COMB.pep.\*  
5: /cgm2\_6/prodata/2/paa/US09\_NEW\_COMB.pep.\*  
6: /cgm2\_6/prodata/2/paa/US10\_NEW\_COMB.pep.\*  
7: /cgm2\_6/prodata/2/paa/US11\_NEW\_COMB.pep.\*  
8: /cgm2\_6/prodata/2/paa/US60\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Length	ID	Description
1	1157	66.6	330 7	US-11-170-797-14
2	932	53.7	372 6	US-10-940-774A-11132
3	903	52.0	329 1	PCT-US05-18790-57
4	898	51.7	323 1	PCT-US05-18790-55
5	898	51.7	323 6	US-10-998-526-5
6	898	51.7	323 7	US-11-027-053-4
7	898	51.7	323 7	US-11-120-927-16
8	898	51.7	323 7	US-11-170-797-3
9	743.5	42.8	351 6	US-10-960-855-18
10	687.5	39.6	219 7	US-11-120-927-22
11	640.5	36.9	309 7	US-11-170-797-10
12	229.5	13.2	306 5	US-09-890-729A-9
13	229.5	13.2	314 7	US-11-170-797-8
14	213	12.3	288 1	PCT-US05-18790-53
15	213	12.3	288 7	US-11-027-053-2
16	213	12.3	288 7	US-11-120-927-15
17	213	12.3	288 7	US-11-170-797-1
18	203	11.7	283 1	PCT-US04-19179-4
19	203	11.7	283 1	PCT-US04-19179-6
20	203	11.7	283 6	US-10-871-696-4
21	203	11.7	283 6	US-10-871-696-6
22	200.5	11.5	216 6	US-10-461-000-23
23	200.5	11.5	226 7	US-11-120-927-21
24	197.5	11.4	224 6	US-10-998-526-4
25	192	11.1	271 1	PCT-US05-15207-1602

## ALIGNMENTS

RESULT 1  
US-11-170-797-14  
; Sequence 14, Application US/11170797  
; GENERAL INFORMATION:  
; APPLICANT: Lechler, Robert  
; APPLICANT: Rogers, Nicholas  
; APPLICANT: Doring, Anthony  
; APPLICANT: ML Laboratories PLC  
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
; FILE REFERENCE: 5585-59112-02  
; CURRENT APPLICATION NUMBER: US/11/170,797  
; CURRENT FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: US 05/868,605  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: PCT/GB99/04200  
; PRIOR FILING DATE: 1999-12-17  
; PRIOR APPLICATION NUMBER: 9827921.9  
; PRIOR FILING DATE: 1998-12-19  
; PRIOR APPLICATION NUMBER: 9925015.1  
; PRIOR FILING DATE: 1999-10-23  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 330  
; TYPE: PRT  
; ORGANISM: Forcus spp  
US-11-170-797-14

Query Match 66.6%; Score 1157; DB 7; Length 330;  
Best Local Similarity 70.1%; Pred. No. 2.9e-80;  
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

Qy	8	MCLSHTLVALLISGVSGMKQAVENKTGELPCHPTNSQNTSLDELVVPQDQDKLVY	67
Db	1	MCLSNILFVWLLVLLSGAASLUKQAVENKTGELPCHPTNSQNTSLDELVVPQDQDKLVY	60
Qy	68	EIPFGKPNQVHLKYKGRITSPDKONWTLRLNHNQIKDKGTYHCFIHYKPGKGLVPMHQM	127
Db	61	ELYRGQKPHNVNSKYMGRITSPDKATWTLRLNHNQIKDKGSYQCFIHHKPGHGLVPMHQM	120
Qy	128	SSDSLVLANTSQEPIVTSNRTENSQINLTCSSTQGYPEPKEMYPOLNTENSTTKYDTV	187
Db	121	SSDSLVLANTSQEPIVTSNRTENSQINLTCSSTQGYPEPKEMYPOLNTENSTTKYDTV	179
Qy	188	MKSGQNVNTELYNVSISLPSVPEANNVSVFALKLEMLL-SLPNIDAQPKNDPE	246
Db	180	MKSGQNVNTELYNVSISLPSVPEANNVSVFALKLEMLL-SLPNIDAQPKNDPE	239

QY 247 OGHFLWIAAALVLMVVFVFCGMVSPKTLRKKKKQPGPSHEC-ETIKRKRKSKOTNERVPY 305  
Db 240 PDHILWIAAALVLMVVFVFCGMVSPKTLRKKKKQPGPSHECETIKRKRKSKOTNERVPY 299

QY 306 HVPERSDEAOC-VNLTASGDN 328  
Db 300 H--ERSDDAQCDVNLTASGDN 321

RESULT 2  
US-10-940-774A-11132  
; Sequence 11132, Application US/10940774A  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/10/940, 774A  
; CURRENT FILING DATE: 2004-09-15  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11132  
; LENGTH: 372  
; TYPE: PRT  
; ORGANISM: Human  
US-10-940-774A-11132

Query Match 53.7%; Score 932; DB 6; Length 372;  
Best Local Similarity 59.1%; Pred. No. 4.3e-63;  
Matches 195; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 2 GICSTWGLSHTLLVMAALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSISDELVLVPMQDQ 61  
Db 44 GICSTWGLSHTLLVMAALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSISDELVLVPMQDQ 103  
QY 62 DKLVLVIFRGKPNQVHLKYKGTSPDKNTLRLHNVQIKDGTGTHCFIHYKPKGL 121  
Db 104 ENLVNEVYLGKFKFDSVHSKYMGRTPSDSDSWTLRLHNLQIKDGLYQCIHHKPKTCM 163  
QY 122 VPMQMSDLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENST 181  
Db 164 IRIQMSLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENST 222  
QY 182 TRYDTVMKSGNNVTLYNVSISLPPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAPQ 240  
Db 223 IEYDGIQMSQDNVTLYNVSISLPPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAPQ 280  
QY 241 KDKPEOCHFLWIAAALVLMVVFVFCGMVSPKTLRK-KKKQPGPSHECETIKRKRKSKOT 299  
Db 281 -DPQPPDHIPWITAVLPT-VIICVMVFCILWKKKKRPRNSYKCGTWTMERESSEQT 338  
QY 300 NERVYVNPERSDEAOCV-NILKTASGDN 328  
Db 339 KKRKIHIPERSDEAOCVFKSKTSKSDKS 368

RESULT 3  
PCT-US05-18790-57  
; Sequence 57, Application PC/TUS0518790  
; GENERAL INFORMATION:  
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
; TITLE OF INVENTION: BY MODULATION OF TNF-alpha ACTIVITY  
; FILE REFERENCE: HUI-055PC  
; CURRENT APPLICATION NUMBER: PCT/US05/18790  
; CURRENT FILING DATE: 2005-06-06  
; PRIOR APPLICATION NUMBER: 60/575,143

; PRIOR FILING DATE: 2004-05-28  
; NUMBER OF SEQ ID NOS: 99  
; SOFTWARE: PatentIn 3.3  
; SEQ ID NO 57  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US05-18790-57

Query Match 52.0%; Score 903; DB 1; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6e-61;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TWGLSHTLLVMAALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSISDELVLVPMQDQKVL 66  
Db 6 TWGLSHTLLVMAALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSISDELVLVPMQDQKVL 65  
QY 67 YEIFRGKPNQVHLKYKGTSPDKNTLRLHNVQIKDGTGTHCFIHYKPKGLVPMHQ 126  
Db 66 NEVYLGKFKFDSVHSKYMGRTPSDSDSWTLRLHNLQIKDGLYQCIHHKPKTCMIRIHQ 125  
QY 127 MSSDLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENSTTKYDT 186  
Db 126 MNSLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENSTTKYDT 184  
QY 187 VMKSGNNVTLYNVSISLPPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAPQKDKP 245  
Db 185 IMQSGNNVTLYNVSISLPPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAPQKDKP 241  
QY 246 EOGHFLWIAAALVLMVVFVFCGMVSPKTLRK-KKKQPGPSHECETIKRKRKSKOTNERVP 304  
Db 242 PDHILWIAAALVLMVVFVFCGMVSPKTLRK-KKKQPGPSHECETIKRKRKSKOTNERVP 300  
QY 305 HVPERSDEAOCV-NILKTASGDN 328  
Db 301 IHIPERSDEAOCVFKSKTSKSDKS 325

RESULT 4  
PCT-US05-18790-55  
; Sequence 55, Application PC/TUS0518790  
; GENERAL INFORMATION:  
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
; TITLE OF INVENTION: BY MODULATION OF TNF-alpha ACTIVITY  
; FILE REFERENCE: HUI-055PC  
; CURRENT APPLICATION NUMBER: PCT/US05/18790  
; CURRENT FILING DATE: 2005-06-06  
; PRIOR APPLICATION NUMBER: 60/575,143  
; PRIOR FILING DATE: 2004-05-28  
; NUMBER OF SEQ ID NOS: 99  
; SOFTWARE: PatentIn 3.3  
; SEQ ID NO 55  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US05-18790-55

Query Match 51.7%; Score 898; DB 1; Length 323;  
Best Local Similarity 58.3%; Pred. No. 1.4e-60;  
Matches 189; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 8 MGLSHTLLVMAALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSISDELVLVPMQDQKVL 67  
Db 1 MGLSHTLLVMAALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSISDELVLVPMQDQKVL 60  
QY 68 EIRFGKPNQVHLKYKGTSPDKNTLRLHNVQIKDGTGTHCFIHYKPKGLVPMHQ 127  
Db 61 EYVYLGKFKFDSVHSKYMGRTPSDSDSWTLRLHNLQIKDGLYQCIHHKPKTCMIRIHQ 120  
QY 128 SSDLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENSTTKYDTV 187  
Db 121 NSELVLANFQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENSTTKYDTV 179





QY 8 MGLSHTLLVMAALLSGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVWFQDQDLVLY 67  
DB 1 MGLSNILFVMAFLLSGAAPLKIOAYFNETADLPQFANSQNSLSLSELVWFQDQDLVLY 60  
QY 68 EIFRGKPNQVHLKYKGRTSFQDNWTLRLANVOIKDGTTHCFIHYKGPGLVPMHQM 127  
DB 61 EYVLGKEKFDVSHSKYMGRTSPDSQSWTLRLANLQIKDGLYQCIHHKKEPTGMIRHQM 120  
QY 128 SSDLSVLANSQPEITVTSNRTEGSIINLTCSSTOGYPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSLSVLANSQPEIVPISNITENV-YINLTCSSTHGYPEPKMSVLLRTKNTSTIEYDGI 179  
QY 188 MKKQNNVTLYNVSISLSPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAOQPKDPE 246  
DB 180 MOKSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQPP 236  
QY 247 QGHFLWIAAALVMPVFCGMVSFKTLRK-RKKQKQPGSHCECTIKRERKESKOTNERVY 305  
DB 237 PDHIPWITAVLPT-VIICVMVFCILWKKKKRPRNSYKCGTNTMERBESQTKKREKI 295  
QY 306 HYPERSDEAQC-V-NILKTASGDKN 328  
DB 296 HIPERSDEAQRVFKSKTSKSCDKS 319

## RESULT 8

US-11-170-797-3  
; Sequence 3, Application US/11170797  
; GENERAL INFORMATION:  
; APPLICANT: Lechler, Robert  
; APPLICANT: Rogers, Nichola  
; APPLICANT: Dorling, Anthony  
; APPLICANT: ML Laboratories PLC  
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
; FILE REFERENCE: 5585-59112-02  
; CURRENT APPLICATION NUMBER: US/11/170,797  
; PRIOR FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: US 09/868,605  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: PCT/GB99/04200  
; PRIOR FILING DATE: 1999-12-17  
; PRIOR APPLICATION NUMBER: 9827921.9  
; PRIOR FILING DATE: 1998-12-19  
; PRIOR APPLICATION NUMBER: 9925015.1  
; PRIOR FILING DATE: 1999-10-23  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-170-797-3

Query Match 51.7%; Score 898; DB 7; Length 323;  
Best Local Similarity 58.3%; Pred. No. 1.4e-60;  
Matches 189; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 8 MGLSHTLLVMAALLSGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVWFQDQDLVLY 67  
DB 1 MGLSNILFVMAFLLSGAAPLKIOAYFNETADLPQFANSQNSLSLSELVWFQDQDLVLY 60  
QY 68 EIFRGKPNQVHLKYKGRTSFQDNWTLRLANVOIKDGTTHCFIHYKGPGLVPMHQM 127  
DB 61 EYVLGKEKFDVSHSKYMGRTSPDSQSWTLRLANLQIKDGLYQCIHHKKEPTGMIRHQM 120  
QY 128 SSDLSVLANSQPEITVTSNRTEGSIINLTCSSTOGYPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSLSVLANSQPEIVPISNITENV-YINLTCSSTHGYPEPKMSVLLRTKNTSTIEYDGI 179  
QY 188 MKKQNNVTLYNVSISLSPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAOQPKDPE 246  
DB 180 MOKSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQPP 236

QY 247 QGHFLWIAAALVMPVFCGMVSFKTLRK-RKKQKQPGSHCECTIKRERKESKOTNERVY 305  
DB 237 PDHIPWITAVLPT-VIICVMVFCILWKKKKRPRNSYKCGTNTMERBESQTKKREKI 295  
QY 306 HYPERSDEAQC-V-NILKTASGDKN 328  
DB 296 HIPERSDEAQRVFKSKTSKSCDKS 319

## RESULT 9

US-10-960-855-18  
; Sequence 18, Application US/10960855  
; GENERAL INFORMATION:  
; APPLICANT: ALBANI, SALVATORE  
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION  
; FILE REFERENCE: AND-1001-CP2  
; CURRENT APPLICATION NUMBER: US/10/960,855  
; PRIOR FILING DATE: 2004-10-06  
; PRIOR APPLICATION NUMBER: 60/510,645  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: 09/756,983  
; PRIOR FILING DATE: 2001-01-09  
; PRIOR APPLICATION NUMBER: 09/421,506  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: PCT/US99/2466  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/105,018  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 3.3  
; SEQ ID NO 18  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: fusion construct with human and bacterial  
; OTHER INFORMATION: sequences  
US-10-960-855-18

Query Match 42.8%; Score 743.5; DB 6; Length 351;  
Best Local Similarity 61.3%; Pred. No. 8.7e-49;  
Matches 149; Conservative 32; Mismatches 57; Indels 5; Gaps 4;

QY 8 MGLSHTLLVMAALLSGVSSMKSOAYFNKTGELPCHFTNSQNSISLDELVWFQDQDLVLY 67  
DB 1 MGLSNILFVMAFLLSGAAPLKIOAYFNETADLPQFANSQNSLSLSELVWFQDQDLVLY 60  
QY 68 EIFRGKPNQVHLKYKGRTSFQDNWTLRLANVOIKDGTTHCFIHYKGPGLVPMHQM 127  
DB 61 EYVLGKEKFDVSHSKYMGRTSPDSQSWTLRLANLQIKDGLYQCIHHKKEPTGMIRHQM 120  
QY 128 SSDLSVLANSQPEITVTSNRTEGSIINLTCSSTOGYPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSLSVLANSQPEIVPISNITENV-YINLTCSSTHGYPEPKMSVLLRTKNTSTIEYDGI 179  
QY 188 MKKQNNVTLYNVSISLSPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAOQPKDPE 246  
DB 180 MOKSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQPP 236  
QY 247 QGH 249  
DB 237 PDH 239

## RESULT 10

US-11-120-927-22  
; Sequence 22, Application US/11120927  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Lieping  
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY  
; MOLECULES

```
FILE REFERENCE: 07039-219001
CURRENT APPLICATION NUMBER: US/11/120,927
CURRENT FILING DATE: 2005-05-02
PRIOR APPLICATION NUMBER: US/09/915,789
PRIOR FILING DATE: 2001-07-01
PRIOR APPLICATION NUMBER: US 60/220,991
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 219
TYPE: PRT
ORGANISM: Homo sapiens
US-11-120-927-22

Query Match
Best Local Similarity 39.6%; Score 687.5; DB 7; Length 219;
Matches 136; Conservative 30; Mismatches 50; Indels 5; Gaps 4;

QY 30 QAYFNKTEGELPCHFTNSQNSISLDELVVFWDQDQKLVLYEIRGKENPQNVHLKXKGTSTF 89
DB 1 QAYFNTEADLPCQFANSQNSLSLSELVVFWDQDQKLVLYEIRGKENPQNVHLKXKGTSTF 60
QY 90 DKDNTLRLHNVOIKDQGYHCFIHYKGPGLVPMHOMSDSLVLANFSPQBITVTSNRT 149
DB 61 DSDSWTLRLHLQIKDKGLQYCIIRHKKPTGMRTHQWNSLSVLANFSPQBITVTSNRT 120
QY 150 ENSGIINLTSSIOGPEPKMYFQNTNENSTTKYDTVMKSSQNNVTLYNVSISLPPSV 209
DB 121 ENV-YINLTSSINGPEPKMYFQNTNENSTTKYDTVMKSSQNNVTLYNVSISLPPSV 179
QY 210 PE-AHNVSVFCAKLEMLELSPNIDAPQKQDQCGH 249
DB 180 PDVTSNMTIPCIETDKTR-LSSPFSIELE--DPQPPPDH 217

RESULT 11
US-11-170-797-10
Sequence 10. Application US/11/170797
GENERAL INFORMATION:
APPLICANT: Lechler, Robert
APPLICANT: Rogers, Nichola
APPLICANT: Dorling, Anthony
APPLICANT: MU Laboratories PLC
TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH
FILE REFERENCE: 5585-59112-02
CURRENT APPLICATION NUMBER: US/11/170,797
CURRENT FILING DATE: 2005-06-28
PRIOR APPLICATION NUMBER: US 09/868,605
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/GB99/04200
PRIOR FILING DATE: 1999-12-17
PRIOR APPLICATION NUMBER: 9827921.9
PRIOR FILING DATE: 1998-12-19
PRIOR APPLICATION NUMBER: 9925015.1
PRIOR FILING DATE: 1999-10-23
NUMBER OF SEQ ID NOS: 39
SOFTWARE: Patent in Ver. 2.1
SEQ ID NO 10
LENGTH: 309
TYPE: PRT
ORGANISM: Mus musculus
US-11-170-797-10

Query Match
Best Local Similarity 36.9%; Score 640.5; DB 7; Length 309;
Matches 140; Conservative 54; Mismatches 86; Indels 19; Gaps 8;

QY 7 TADLSHTLLVWALLSGVSMKSOAYFNKTEGELPCHFTNSQNSISLDELVVFWDQDQKLV 66
DB 6 TMGLAILFVTVLLSDAVSVETQAYFNGTAYLPCTFKAQNISLSLSELVVFWDQDQKLV 65
QY 67 YEIRGKENPQNVHLKXKGTSTFQDKDNTLRLHNVOIKDQGYHCFIHYKGPGLVPMH 126

FILE REFERENCE: 07039-219001
CURRENT APPLICATION NUMBER: US/11/120,927
CURRENT FILING DATE: 2005-05-02
PRIOR APPLICATION NUMBER: US/09/915,789
PRIOR FILING DATE: 2001-07-01
PRIOR APPLICATION NUMBER: US 60/220,991
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 219
TYPE: PRT
ORGANISM: Homo sapiens
US-11-120-927-22

Query Match
Best Local Similarity 39.6%; Score 687.5; DB 7; Length 219;
Matches 136; Conservative 30; Mismatches 50; Indels 5; Gaps 4;

QY 30 QAYFNKTEGELPCHFTNSQNSISLDELVVFWDQDQKLVLYEIRGKENPQNVHLKXKGTSTF 89
DB 1 QAYFNTEADLPCQFANSQNSLSLSELVVFWDQDQKLVLYEIRGKENPQNVHLKXKGTSTF 60
QY 90 DKDNTLRLHNVOIKDQGYHCFIHYKGPGLVPMHOMSDSLVLANFSPQBITVTSNRT 149
DB 61 DSDSWTLRLHLQIKDKGLQYCIIRHKKPTGMRTHQWNSLSVLANFSPQBITVTSNRT 120
QY 150 ENSGIINLTSSIOGPEPKMYFQNTNENSTTKYDTVMKSSQNNVTLYNVSISLPPSV 209
DB 121 ENV-YINLTSSINGPEPKMYFQNTNENSTTKYDTVMKSSQNNVTLYNVSISLPPSV 179
QY 210 PE-AHNVSVFCAKLEMLELSPNIDAPQKQDQCGH 249
DB 180 PDVTSNMTIPCIETDKTR-LSSPFSIELE--DPQPPPDH 217

RESULT 12
US-09-890-729A-9
Sequence 9. Application US/09890729A
GENERAL INFORMATION:
APPLICANT: YOSHINAGA, STEVEN KIYOSHI
TITLE OF INVENTION: POLYPEPTIDES INVOLVED IN IMMUNE RESPONSE
FILE REFERENCE: A-5798
CURRENT APPLICATION NUMBER: US/09/890,729A
CURRENT FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: PCT US00/01871
PRIOR FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: 09/264,527
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: 09/244,448
PRIOR FILING DATE: 1999-02-03
NUMBER OF SEQ ID NOS: 37
SOFTWARE: Patent in version 3.2
SEQ ID NO 9
LENGTH: 306
TYPE: PRT
ORGANISM: Mus musculus
US-09-890-729A-9

Query Match
Best Local Similarity 13.2%; Score 229.5; DB 5; Length 306;
Matches 79; Conservative 57; Mismatches 138; Indels 57; Gaps 12;

QY 14 LVLVALLSGVSMKSOAYFNKTEGELPCHFTNSQNSISLDELVVFWDQDQKLVLYEIR 70
DB 24 LPVLLIRLSQVSSDQVDEQLSKSVKDKVLLPCRY-NSPHDSSEDRIVYQKHDKVVL-SVI 81
QY 71 RKENPQNVHLKXKGTSTFQDKDNTLRLHNVOIKDQGYHCFIHYKGPGLVPMHOMSD 130
DB 82 AGK--LKVNPFTKNTLNDNTTSLIILGLVSDRGITSCVQKQKRGTYEVHKLAVK 138
QY 131 LSVLANFSPQBITVTSNRTNENSTTKYDTVMKSSQNNVTLYNVSISLPPSV 186
DB 139 LSIKADFTSNITENSGNPSADTK--RITCPASGGPPEKPFSLWENGRSLPGINTTI---- 192
QY 187 VMKSSQNNVTLYNVSISLPPSVFPAHNVSVFCAKLEMLELSPNIDAPQKQDQK 246
DB 193 ---SQPSELVTIISQLDFNTNHTIK--CLIKYG--DAHVSDEDTWKEPDPDPDS 244
QY 247 Q-----GHPLWIAVLVVFVFCGVMSFVKTLRKXKXKQPPSPHCECTIKRKRKES 296
DB 245 KNTLVLFQAGFGAVITVWVWIIKQPC-----KRRSCPRRNEAS 284
QY 297 KQTNERVVYHVPERSDEAOCV 317
DB 295 RETNNSLTFG-PBEALAEQTV 304

RESULT 13
US-11-170-797-8
Sequence 8. Application US/11/170797
GENERAL INFORMATION:
APPLICANT: Lechler, Robert
```

APPLICANT: Rogers, Nichola  
APPL-CANT: Dorling, Anthony  
APPL-CANT: ML Laboratories PLC  
TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
FILE REFERENCE: 5585-59112-02  
CURRENT APPLICATION NUMBER: US/11/170,797  
CURRENT FILING DATE: 2005-06-28  
PRIOR APPLICATION NUMBER: US 09/868,605  
PRIOR FILING DATE: 2001-06-19  
PRIOR APPLICATION NUMBER: PCT/GB99/04200  
PRIOR FILING DATE: 1999-12-17  
PRIOR APPLICATION NUMBER: 9827921.9  
PRIOR FILING DATE: 1998-12-19  
PRIOR APPLICATION NUMBER: 9925015.1  
PRIOR FILING DATE: 1999-10-23  
NUMBER OF SEQ ID NOS: 39  
SOFTWARE: Patent In Ver. 2.1  
SEQ ID NO 8  
LENGTH: 314  
TYPE: PRT  
ORGANISM: Mus musculus  
US-11-170-797-8

Query Match 13.2%; Score 229.5; DB 7; Length 314;  
Best Local Similarity 24.6%; Pred. No. 9.6e-10;  
Matches 79; Conservative 57; Mismatches 128; Indels 57; Gaps 12;  
QY 14 LLMALLISGVSSMKSOAYFNKGE---LPCHFTNSQNSISLDELVFWQDQKLVYBIP 70  
DB 32 LFLVLIRUSQSSVDQLSKSVCKVLLPCRY-NSPHEDESEDRITYQKHDKVVL-SVI 89  
QY 71 RGENQPNVHLKYGRTSFDKQNTLRLHNVOIKDGTGTHCFIHYKPGKGLVPMHQMSSD 130  
DB 90 AGK---LKMVEYKNTLYDNTTYBLLIILGLVLSDRGTYSVCVQKRGTYEVKHLAVK 146  
QY 131 LSVLANFSPQBITVTSNRNTEGSIINLTCSIOGYPEPKMYFOLNTE---NSTTKYDT 186  
DB 147 LSIKADFTNITESGNPSADTK--RITCFASGGFPKPPSWLENGELPGIINTTI--- 200  
QY 187 VMSQSNVTELYNVSISLPSVPEAHNVSVFCALKLETLEMLLSLFPNDAQPKDPE 246  
DB 201 ---SQDPESLEYTISSQLDFNTRNHTIK--CLIKYG--DAHVSDFTWKPPEDPPDS 252  
QY 247 Q-----GHLMTAAVLVNFVFCQMSVFKTLRKKKQPGSPHECTIKRKES 296  
DB 253 KNTLVLCAGGAGVITVVIWIKKFC-----KURSCFRNEAS 292  
QY 297 KOTNERVPYHPERSDEAQC 317  
DB 293 RETNNSLTFG-PEALAEQTV 312

RESULT 14  
PCT-US05-18790-53  
Sequence 53, Application PC/TUS0518790  
GENERAL INFORMATION:  
APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
FILE REFERENCE: HUI-055PC  
CURRENT APPLICATION NUMBER: PCT/US05/18790  
CURRENT FILING DATE: 2005-06-06  
PRIOR APPLICATION NUMBER: 60/575,143  
PRIOR FILING DATE: 2004-05-28  
NUMBER OF SEQ ID NOS: 99  
SOFTWARE: Patent In 3.3  
SEQ ID NO 53  
LENGTH: 288  
TYPE: PRT  
ORGANISM: Homo sapiens  
PCT-US05-18790-53

Query Match 12.3%; Score 213; DB 1; Length 288;

Best Local Similarity 27.3%; Pred. No. 1.6e-08;  
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;  
QY 9 GLSHTLLVALLISGVSSMKSOAYFNKTCGELCHFTNSQNSISLDELV---VFMQDQKLV 65  
DB 27 GLSH-----PCSGVIHVTKV--KEVATLSC---GHNVSVEELAQTRIYWKQKKV 73  
QY 66 LYEIFRGKENPQNVHLKYGRTSFD-KQNTLRLHNVOIKDGTGTHCFIHYKPGKGLVPM 124  
DB 74 LTM-----SGDMNIWPEYKNTIPIDITNLSIVILALRPSDEGTVCVLKYEKDAFRE 129  
QY 125 HQMSDLSVLANFSPQBITVTSNRNTEGSIINLTCSIOGYPEPKMYF-----OLNTENS 180  
DB 130 HLAETVLSVKADPTPSISDPBPTSN--IRRIICSTSGGPPPEPHLSWLENGELNAIN 187  
QY 181 TTKYDTVMKKSQNNVTELYNVSISLPSVPEAHNVSVFCALKLETLEMLLSLFPNDAQ 240  
DB 188 TV-----SQDPETELVAVSSKLDPNMTTH--SPMCLIKYGLR--VNTFNMTTK 235  
QY 241 KDKPEQGHFLW---IAAVLWVFWFCGMVSF-KTLRKKKQPGSPHECTIKRKES 296  
DB 236 QHFPDNLPSWAILTISVNGIFVICCLTYCFAPRCRRRNE-----RLRRS 284

RESULT 15  
US-11-027-053-2  
Sequence 2, Application US/11027053  
GENERAL INFORMATION:  
APPLICANT: Newell, Martha K.  
TITLE OF INVENTION: METHODS AND PRODUCTS RELATED TO  
FILE REFERENCE: V0139/7028/HK  
CURRENT APPLICATION NUMBER: US/11/027,053  
CURRENT FILING DATE: 2004-12-30  
PRIOR APPLICATION NUMBER: US/09/277,575  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: U.S. 60/082,250  
PRIOR FILING DATE: 1998-04-17  
PRIOR APPLICATION NUMBER: U.S. 60/094,519  
PRIOR FILING DATE: 1998-07-29  
PRIOR APPLICATION NUMBER: U.S. 60/101,580  
PRIOR FILING DATE: 1998-09-24  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 288  
TYPE: PRT  
ORGANISM: Homo Sapiens  
US-11-027-053-2

Query Match 12.3%; Score 213; DB 7; Length 288;  
Best Local Similarity 27.3%; Pred. No. 1.6e-08;  
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;  
QY 9 GLSHTLLVALLISGVSSMKSOAYFNKTCGELCHFTNSQNSISLDELV---VFMQDQKLV 65  
DB 27 GLSH-----PCSGVIHVTKV--KEVATLSC---GHNVSVEELAQTRIYWKQKKV 73  
QY 66 LYEIFRGKENPQNVHLKYGRTSFD-KQNTLRLHNVOIKDGTGTHCFIHYKPGKGLVPM 124  
DB 74 LTM-----SGDMNIWPEYKNTIPIDITNLSIVILALRPSDEGTVCVLKYEKDAFRE 129  
QY 125 HQMSDLSVLANFSPQBITVTSNRNTEGSIINLTCSIOGYPEPKMYF-----OLNTENS 180  
DB 130 HLAETVLSVKADPTPSISDPBPTSN--IRRIICSTSGGPPPEPHLSWLENGELNAIN 187  
QY 181 TTKYDTVMKKSQNNVTELYNVSISLPSVPEAHNVSVFCALKLETLEMLLSLFPNDAQ 240  
DB 188 TV-----SQDPETELVAVSSKLDPNMTTH--SPMCLIKYGLR--VNTFNMTTK 235  
QY 241 KDKPEQGHFLW---IAAVLWVFWFCGMVSF-KTLRKKKQPGSPHECTIKRKES 296  
DB 236 QHFPDNLPSWAILTISVNGIFVICCLTYCFAPRCRRRNE-----RLRRS 284

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us-09-303-510-6.rapn

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Search completed: August 17, 2005, 19:09:29  
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